

FIRST GLANCE

Love you forever

Family Studies adjunct professor Robert Munsch of Guelph has something to celebrate. The No. 1 book on the first *New York Times* children's bestseller list in 16 years is Munsch's book *Love You Forever*.

The picture book about a mother's love for her son has sold seven million copies in paperback and 300,000 in hard cover since it was published in 1986.

The book that ranked second to *Love You Forever* was Marguerite Hurd Brown's *Goodnight Moon*, published in 1947. Beatrix Potter's classic *The Tale of Peter Rabbit* ranked 14th.

Since 1978, the last time *The Times* ranked children's books, the baby-boom generation has grown up, settled down and had children. With grandparents and parents showering their kids with books from birth, the children's publishing industry has boomed, says *The Times*.

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Thought for the week

Somebody's boring me . . .
I think it's me.

Dylan Thomas

**DOWNTOWN
GUELPH**

Math prof wins OCUFA award

by Maurice Oishi
University Communications

The only thing that comes more naturally than mathematics to Prof. Jack Weiner, Mathematics and Statistics, is his enthusiasm about teaching it.

When he skipped classes in high school, his teachers never complained because "I was in the cafeteria tutoring other students," he says. All his teachers asked was that he hand in his assignments and keep up his grades.

Since then, he's learned a lot about what it takes to make a good teacher, a fact to which his students, colleagues and the Ontario Confederation of University Faculty Associations (OCUFA) will attest. Weiner was recently named a winner of OCUFA's 1993 awards for excellence in teaching. The award will be presented June 10.

Looking at watch

As a student of mathematics — he has a master's degree from the University of Waterloo and a bachelor of education from Queen's — Weiner has sat in on his share of classes. "No matter how good the teacher is," he says, "I find I'm looking at my watch after 10 minutes. One of my greatest challenges is to have students so involved that they never look at their watches."

Weiner believes effective teaching requires effective feedback. And one of the best forms of feedback he gets is the comments students write on their course-evaluation forms. He asks them to "tell me exactly what I should do to improve."

His evaluations are typically glowing, with one student going so far as to call him "a math god," but when improvements are suggested, he makes an effort to follow through. For one thing, he's learned to talk more slowly in class. And he's tried, really tried, to get his blackboard scrawl under control. "Every semester I start with the best of intentions, but then I get so excited and so enthusiastic about what I'm doing that my writing falls apart. I also resolve every semester to stop getting chalk all over my face and clothes."

As for winning the OCUFA award, the former high school teacher gives credit to the University, academic vice-president Jack MacDonald and the Department of Mathematics and Statistics for their support. "Jack MacDonald has emphasized the importance of effective teaching and contributions to teaching," he says. "I believe I have received much more credit at U of G for these activities than I would at most other universities. This institution pays more than lip service to promoting and rewarding good pedagogy."

Edits journal

In addition to teaching, Weiner edits the *Ontario Mathematics Gazette*, a journal for high school, elementary school, college and university math teachers, for the Ontario Association for Mathematics Education. He's also written an OAC calculus text and served as technical adviser for a TVOntario production on math. In 1982, he launched the Super Math Club, a program that combines high school liaison with mathematical enrichment.

Weiner attributes part of his success to his ability to engage students even in a lecture hall full of 250 bodies. "How do I get them involved in what I'm doing? Often I start an example, then I give them time in class to work it out. If they can't do it, I encourage them to work with a neighbor. After about two minutes, I'll discuss the solution. Students who answered the question can bask in their success. Those who didn't are now really anxious to see it done. Nobody is looking at the clock."

Open-door policy

He makes a point of giving students more than information. Beyond scheduled office hours, he has an open-door policy. He also ensures that students have the basics needed to effectively understand the concepts he presents in class.

Even before students crack open their homework assignments, Weiner recommends they pore over their notes and repeat the examples from class until they're comfortable with them.

"In calculus, for example, a stu-



OCUFA award winner Prof. Jack Weiner says it's vital to motivate students to enjoy as well as master material.

Photo by Maurice Oishi, University Communications

dent who hasn't gone over the notes might look at a question and think: 'That's just like a question I did in OAC calculus.' But it's not and the student spends two hours getting a wrong answer. This is not two hours' studying. It's two hours' reinforcing a misconception. If the student works through the class examples first, he or she will think: 'That's just a variation of example three.' Now we're learning."

Over the past decade, Weiner has seen marks in his class rise —

his last class average was 80 per cent. For his part, he doesn't seek out "a nice bell curve with a mean at 62 per cent." Rising marks do, in fact, reflect a real phenomenon, he says. "I'm not making things easier. There's a real improvement in student work habits."

Motivating students to enjoy as well as master the material is vital, he says. "You have to give them a strategy for success. But first, you have to get — and keep — their attention." □

Congratulations, grads!

A record 1,950 undergraduates and 158 graduate students are receiving degrees and diplomas this week at spring convocation.

During the ceremonies, the University is bestowing honorary degrees on physiologist David Armstrong, psychiatrist Nathan Epstein, animal scientist Christopher Polge, economist John Helliwell and entre-

preneur Mac Cuddy.

Guelph is also naming retired zoology professor Keith Ronald an honorary fellow of the University and bestowing professor emeritus status on retired political studies professor Henry Wiseman and retired OAC dean Freeman McEwen.

See next week's *At Guelph* for full coverage of spring convocation. □



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by David Macpherson
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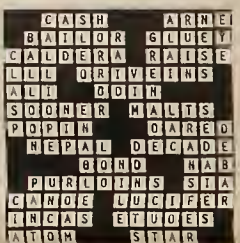
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Calling all writers

If you write poetry, short stories or essays, you could be a winner in the second annual creative-writing competition sponsored by U of G's alumni magazine, the *Guelph Alumnus*. The top three entries will share \$1,000 in prize money and will be published in the winter issue of the *Alumnus*.

Anyone can enter, except the U of G staff and alumni who produce the magazine. And you can submit as many as three entries — a short story, a personal essay and poetry — as long as you haven't published a book in the category.

Each entry will compete for one of three prizes — \$500 for first overall, \$300 for second and \$200 for third. Last year's competition received more than 400 entries from all over Canada and several other countries.

All entries must be typed double-spaced on 8 1/2- by 11-inch bond paper and must include a cover sheet with your name, address and telephone number. Pseudonyms are not allowed. Entries must be original and unpublished. Short stories and personal essays can be no longer than 4,500 words and poetry entries no more than eight pages. Include a self-addressed, stamped envelope if you want your manuscript returned.

Send entries to *Guelph Alumnus* editor Mary Dickieson, University Communications, Level 4, University Centre. They must be postmarked by July 15. Submissions by fax will not be accepted. □

Hospital fund raiser brings out team spirit

by Justin Diggie
University Communications

U of G is doing its part to help the Guelph community with the second annual Hot Foot Happening for the Guelph hospitals. Members of the University are involved in planning the entertainment and food for the June 11 event, and people from across campus have signed up for teams to run the 24-hour relay.

Building on the success of last year, University Centre director Bill McNaughton and a committee have been meeting since December, aiming to increase participation in the event and the amount of funds raised. "Last year we raised about \$90,000," he says, "and we're aiming for \$150,000 this year."

McNaughton's group, a sub-committee of the downtown co-ordinating body, includes Laurie Farquharson of Athletics, Garry Round of Hospitality and Retail Services, Garry Tatum of Telecommunications and Wayne Hepburn of UC Programming. They see the event as a good way for U of G to play a valuable role in the community.

Round says the University's participation is "good for the community and good for the institution. The hospitals need the money, and we'll be well represented."

McNaughton sees the committee's involvement as "an opportunity to give something back to the community. With the economy the way it is, whatever we can do to help the hospitals is beneficial."

The committee has a number of events planned for the weekend of

the relay. In conjunction with Pizza Pizza, McGinnis Landing, Gryphs and Silver Peso, the group has organized a varied food and bar menu, with the Guelph Saults Gymnastic Club providing coffee and muffins.

In addition to food and beverages, the committee has planned activities for the relay teams. Because only one member of each team will be running the 2.5-kilometre route around town at a time, Farquharson and the Department of Athletics have organized a number of games for the waiting participants. They include a volleyball tournament, tug-of-war and a flag and uniform contest.

The committee also has a varied lineup of entertainment planned. Acts range from Rick & Judy for the kids to the Twilites for big-band enthusiasts. Also scheduled are musical groups Box Meat Revolution, And Then Some and Black Cabbage. In addition, members of the Saults Club will exhibit their skills.

U of G is not just helping to plan and administer the event. Hospitality and Retail Services and the Department of Nutritional Sciences are fielding teams, with the former headed by Dino "Superfan" Scremeni, manager of the Gryphs Pro Shop.

Each team member is responsible for raising pledges and running, walking or crawling the route at least once.

The relay gets under way at Centennial Park Saturday morning at 10 a.m. Spectators and donations are welcome. For more information, call Elaine Wilson at St. Joseph's Hospital, 767-3424. □

PEOPLE

Poetry wins national award

Prof. Janice Kulyk Keefer, English, has won her second National Magazine Award for poetry. She won this year for three poems — *Oranges*, *A Rare Photograph*... and *Massacre of the Innocents*, which appeared in *Eveni* magazine. She also won in 1990. Kulyk Keefer, who just returned from giving conference papers and readings in Israel, Italy, Slovenia and Croatia, is the author of seven books, including two novels and a book of poetry. Her work has garnered numerous other awards, including first prize for fiction in the CBC Radio Literary Competition in both 1985 and 1986, the CBC's third prize for poetry in 1988, the 1991 Malahat long poem competition and the 1987 British Airways Commonwealth Poetry Prize. Her 1987 book *Under Eastern Eyes: A Critical Reading of Canadian Maritime Fiction*, was nominated for a Governor-General's Award.



Prof. Janice Kulyk Keefer

James named to EPA panel

Prof. Bill James, School of Engineering, has been appointed to the U.S. Environmental Protection Agency's peer review panel for the Rouge River National Wet Weather Demonstration Project. The five-member panel will critically review the computer modelling and field work in this Michigan study of the sources of storm-related water pollution and assessment of the effectiveness of various control technologies. The three-year project is administered by Wayne County, Michigan, with support of \$128 million from the U.S. government.

CIDS members attend seminar

Members of U of G's Collaborative International Development Studies (CIDS) program attended an International Development Research Centre-sponsored seminar on "New Directions in Development Studies" in Banff last month. Prof. Mike Hoy, Economics, undergraduate student Sheela Samat and professor emerita Nora Cebotarev, Sociology and Anthropology, participated in seminars and workshops. Cebotarev made two presentations on CIDS activity, discussing study-abroad experiences and the use of CoSy in teaching introductory international development courses.

PhD student wins scholarship

Guelph Women in Networking (GWIN) has awarded its 1994 scholarship to Pamela Joesse, a PhD student in the Department of Land Resource Science. The scholarship recognizes a female student enrolled full time in a non-traditional program of study. There are currently no female faculty at U of G in land resource science and only one in Canada. Joesse's research focuses on compaction of Ontario agricultural soils. GWIN vice-president Karen Scott presented the award.

Retirement lunch planned

A farewell retirement lunch is being held for distance education director Richard Leavens June 16. Cost is \$15. RSVP by June 10 to Lou Ann Podmore at Ext. 2940 or 2905.

Photo exhibit opens in Toronto

An exhibit of photographs by Martin Schwalbe, Photographic Services, opens June 4 at the D-MAX Photo Lab, 366 Adelaide St., Toronto, and continues indefinitely. An opening reception will be held June 11 from 6 to 9 p.m.

Judging teams score

Two teams of U of G students competed in several competitions last semester. The degree judging team, consisting of Paul Hunt, Glenn Berkey, Wendy Buchner and Heather McIntosh, placed first at the Kemptville competition and the Canadian intercollegiate competition held at U of G. They placed third at the MacDonald competition. The diploma team, consisting of Jeff Sayles, Jason French, Bryan Fieldhouse and Rob Eby, placed second at the Royal Winter Fair and Kemptville, fourth at the intercollegiate competition and seventh in Kemptville. □

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Conference Services reorganization to streamline functions

Conference Services and Continuing Education are joining forces in a bid to strengthen and streamline U of G's conference activity. The move is part of a reorganization of Community and Conference Services that moves many of the functions of the unit to other departments throughout the University.

The reorganization was announced in a memo last week from academic vice-president Jack MacDonald and Ken Murray, interim executive director of University Affairs and Development. The changes result from the planning exercise within UA&D that led to the development of a business plan for the division.

"The organizational move reflects a more effective alignment and will result in a more efficient provision of service and allocation of resources," stated the memo.

Because of changing demographics and increasing emphasis on lifelong learning, MacDonald believes the conference/continuing education marriage will better position U of G to offer a full range of learning options to traditional and non-traditional students. He has asked Virginia Gray, chair of Continuing Education, and Gary Nadalin, director of Community and Conference Services, to develop a comprehensive business plan for conference services by early fall.

Conference Services staff Cyndy Forsyth, Phyllis Carnochan and Marianne Szucs will move to Johnston Hall.

The reorganization, which goes into effect June 1, will affect other functions of Community and Conference Services. Murray says rationalizing these functions will cut costs without jeopardizing services.

University Tours will consolidate with the tour function in the liaison area of the Registrar's Office. Tour co-ordinator Sheila Hollidge and the part-time student tour guides will relocate to Level 3 of the University Centre.

Protocol will move to the President's Office. Protocol officer Joan Barr will be involved in organizing special events and co-ordinating the visits of dignitaries to campus. Several activities co-ordinated in this area, such as the University's exhibit at the Royal Agricultural Winter Fair and the Speakers' Bureau, are currently under review.

The management and scheduling of War Memorial Hall are under review. Pam Robinson will continue as co-ordinator for the hall.

Advancement Programs, which co-ordinates alumni travel tours and programs such as *JONOROLA*, will remain in UA&D with Rosemary Clark as director.

The community relations function will also remain in UA&D under the direction of Nadalin, who will co-ordinate the transition of the functions from Community and Conference Services to other areas. It is anticipated that the community relations function will eventually move to the office of the vice-president for University affairs and development.

Relocation of staff is expected to take place over the summer months.

Nadalin, who proposed the reorganization, says the new structure, by consolidating similar activities, will result in cost and functional efficiencies. □



In memory of animals

A member of the University community lays flowers at a memorial next to Zavitz Hall to mark the second annual Gathering to Reflect on the Use of Animals in Research and Teaching at U of G. Looking on are Prof. Hank Davis, Psychology, and graduate student Allison Taylor, Animal and Poultry Science, co-ordinators of the event.

Photo by Trina Kesler, Office of Research

Use your environment, top teachers say

by Maurice Oishi
University Communications

The first step towards being a good teacher is learning how to make the most of your environment. That's what three award-winning teachers told their colleagues at Teaching Support Services' seventh annual Instructional Show and Tell last week.

The 3M award winners discussed how their environment defines their teaching style. Diminishing the shortcomings of their environment while capitalizing on opportunities to engage students is the key to their success, they said.

For James Erskine, a business administration professor at the University of Western Ontario, his case-study method of teaching is synonymous with the "management of spontaneity." Charting the course of a discussion with the intention of moving from intellectual point A to Z — while still keeping an eye to cultivating student input — is a nerve-wracking experience, he said.

Taking control of elements that can be controlled helps Erskine navigate uncharted and unpre-

dictable waters. "I spend a lot of time thinking about the blackboard layout," he said. That's because visual aids are one of the key ways students follow discussions and can dictate the flow of the class.

Another strategy he uses to channel discussion is to not merely assign class readings but to point out issues and ideas for students to consider while doing the readings.

Erskine insists on consistency from himself. He aims to be courteous and timely, with "no surprises." He arrives early to fathom the students' mood and to do often neglected tasks, like understanding how the blackboards shuffle and move. In addition, he tries to foster a level of "academic hospitality" in his class. "I value what (students) say, to allow them to take risks."

On top of this, "I try to engage in the 101 little things" that will convince students that this is the best class they've ever had. That includes smiling, moving from place to place to keep student complacency at bay, gesticulating with his hands and wearing a shirt and tie to show respect.

Philip Wood, an engineering professor at McMaster University, works in a more conventional lecture environment. His task, he said, is to bring the real world into the class. "The thing I do best is to use props — show and tell."

Simple props like tubes and hockey pucks help make seemingly complex concepts approachable. Golf balls and their dimpled surfaces bring fluid dynamics into the student's world. Likewise for lectures, where he uses newspaper articles to add relevance to arcane concepts. "The key is to be realistic and use real issues."

At the same time, Wood works to diminish the toll of mundane but essential lessons, such as mathematical proofs and derivations, by using handouts. Technology can skirt the need for repetitive calculations. Rather than asking students to do a few sample calculations, for instance, he uses a spreadsheet to generate models for students, allowing them to answer "what if" questions.

He cited an extensive study in which students from research-intensive universities with engineering schools report low satisfaction with their schooling, regardless of their program. It's sobering news, but he's heartened by another of the report's findings — that students who have a faculty member to talk to report more success and satisfaction.

Accordingly, Wood makes a point of fraternizing with his students. By challenging them intellectually while relating to them socially, "I think I can excite students to do things that they wouldn't otherwise do."

University of Toronto professor Guy Allen, director of the Psychoanalytical Thought Program, finds this concept applies doubly among the students he champions.

English-as-a-second-language (ESL) students are ostracized and stigmatized not only by their colleagues, but by their teachers as well, he said.

"What teachers say sticks and becomes prophetic. Too many confirm students' own sense of alienation."

Allen speaks from experience. It was the power of a "positive prophet" that directed him away from a life of crime, he said. He was a 16-year-old petty criminal with a reputation for being mean-spirited and malicious when he drifted into an English class one day. "You look like someone who could write," said the teacher. He wrote a report on *Pride and Prejudice* for her. He'd never read the book, so he simply wrote an essay on what the words pride and prejudice meant to him. After he turned in the report, the teacher boasted to the class: "I told you he could write, didn't I?"

"Those were the first positive words any adult said to me," said Allen. "Nothing I did would shake her impervious faith." Now an author, he dedicated his first book to her.

Such dedication is required when teaching non-fluent students, he said. "Teachers who want to raise students to the level of academic discourse must first respect their students and their struggles."

Allen advises his ESL students to meet with their professors and teaching assistants early on, to seek out those who will help them with problems and to identify those who are inflexible. He also advises them not to imitate the convoluted English typical of textbooks. "There's nothing wrong with simplicity," he said, "but it isn't the message they're getting from universities." □

Sexual diversity focus of conference

"Understanding Sexual Diversity" is the theme of the 16th annual Conference on Human Sexuality to be held on campus June 20 to 22. The largest sexuality conference in North America, it is expected to draw 600 teachers, counsellors, doctors, nurses, social workers and members of the clergy from Canada and the United States.

Keynote speaker Robert Francoeur will kick off the conference with his talk on "Understanding Sexual Diversity" June 20 at 8:15 p.m. in Peter Clark Hall. Francoeur is a professor of biological and applied health sciences at Fairleigh Dickinson University in New Jersey. He is the author of 21 books, including *Becoming a Sexual Person* and *Hot & Cool Sex*.

On June 21 at 9 a.m. in Peter Clark Hall, Peggy Kleinplatz focuses on "The Role of Eroticism in Sexual Diversity."

Kleinplatz is a clinical psychologist, sex educator and therapist who teaches at the University of Ottawa and St. Paul University's Institute of Pastoral Studies. Her clinical work has focused on adult survivors of child sexual abuse.

On June 22 at 9 a.m., "Being Sexual in the 1990s" is the topic of Dave Hingsburger, a consultant and lecturer who focuses on people with developmental disabilities. He has co-authored several books, including *Changing Inappropriate Sexual Behavior* and a 17-book series for people with disabilities. □

Top graduating students capture University awards

Yona Lunsky of Toronto is this year's winner of the Winegard Medal, U of G's most prestigious undergraduate award.

A President's Scholar, Lunsky graduates this week with a BA in psychology with a minor in drama. She won most of the academic awards offered by both departments and has been accepted into the dual-track clinical/mental retardation and developmental disability program offered by Ohio State University's psychology department and medical school.

Lunsky received the College of Social Science J.W. Skinner Medal, a scholarship from the Ontario Association on Developmental Disabilities and an Ohio State graduate fellowship.

At Guelph, Lunsky was active in both psychology and drama. She acted in several student productions, was a teacher's assistant in psychology and conducted a research project on autism. During

the 1992 London semester, she got involved in research at the University of London on behavioural disorders of six-year-old brain-damaged children.

Lunsky is also an accomplished vocalist, a vocal coach and a member of local and Toronto-based choirs. She has been a teaching assistant for the York and Wellington boards of education, volunteered with Guelph's Extend-a-Family and worked on a summer camp program for developmentally disabled children at Reena Camp and Lodge and the J.D. Griffin Adolescent Centre.

She was floor representative for Arts House and was an organizer of a campus conference on teaching and learning.

Other nominees for the Winegard Medal were:

- College of Arts — Michael McKinnie of Hamilton, who completed a BA in drama in 1993 and is now doing graduate work in English at York Uni-



Yona Lunsky

versity. His plans include a PhD and a career in academia.

- College of Biological Science — Chris Parent of Sioux Lookout, Ont., who is graduating with a B.Sc. in zoology. A President's Scholar and chair of Senate student caucus, Parent is going on to graduate work at Carleton University and plans a career in university research.

- CPES — Katherine Ashbourne of Weston, who has earned a B.Sc. in biochemistry and plans to do graduate work in cancer biochemistry at the University of British Columbia. Her primary interest is genetic research.

- FACS — Katherine Gale of North York, who just completed her B.A.Sc. in applied human nutrition and has been accepted for an internship at Sunnybrook Health Science Centre in Toronto.

- OAC — Jackie Fraser of Brampton, who graduates this spring with a B.Sc. in resource management and will begin a master's program this fall.

The Winegard Medal is named after former U of G president and Guelph-Wellington MP Bill Winegard. OVC did not submit a nominee for the award.

Forster Medal

This year's winner of U of G's most prestigious graduate award — the Forster Medal — is College of Biological Science PhD graduate Jeff Lightfoot.

When Lightfoot completed a B.Sc. in microbiology in 1987, he enrolled in a master's program, but his research skills led faculty to recommend a direct transfer into a PhD program. He completed the degree in 1993 and is now a postdoctoral fellow at the Hospital for Sick Children in Toronto. His work involves molecular cloning of genetic material.

His PhD research represents a major step forward in the studies into chronic infection by *Pseudomonas aeruginosa* in the lungs of cystic fibrosis patients. The project even named a new gene. He has published three journal papers and earned scholarships from the Natural Sciences and Engineering Research Council and the Medical Research Council.

Originally from Halifax, Lightfoot worked at U of G as a teaching assistant in both microbiology and microbial ecology — earning top ratings from his students — was a volunteer with the wildlife rehabilitation centre on campus, the Guelph Humane Society, the Ontario Society for the Prevention of Cruelty to Animals and a downtown soup kitchen.

Other nominees for the Forster Medal were:

- College of Social Science — Mark MacDonald of Guelph, who began his undergraduate studies at U of G in toxicology, earning a B.Sc. in 1991. He then switched to political studies, completing a master's degree in 1993. He is now enrolled in a PhD program at Carleton University.

- OAC — Michael Lohuis, who earned a B.Sc. from U of G in 1983, completed a PhD in animal-breeding strategies in 1993, graduating with distinction. Originally from London, he is now a research associate and adjunct professor in the Department of Animal Science.

- OVC — Louise Plante of St-Valère, Que., who earned a B.Sc. from the University of Quebec and an M.Sc. from the University of Montreal, graduated from Guelph in 1993 with a PhD in biomedical sciences. Winner of the prize for best thesis, she is doing postdoctoral studies in obstetrics and gynecology at the University of Western Ontario.

The Forster Medal is named for the late Donald Forster, a former

president of U of G. CPES, FACS and the College of Arts did not submit entries for the award.

Governor-General Awards

Each year, the University's Governor-General Awards recognize graduates of undergraduate, graduate and diploma programs with the highest accumulative average.

This year's graduate student recipient is Ingrid Ostling of Sweden, who earned an MA in industrial/organizational psychology in the College of Social Science.

Because of her high academic standing, Ostling won two Ontario Graduate Scholarships and two U of G fellowships. She worked as a teaching assistant in the Department of Psychology, was on the organizing committee for a joint Guelph-Waterloo conference in industrial/organizational psychology and won an award for the best student poster at the 1992 annual meeting of the Canadian Psychological Association.

Undergraduate recipient is Lorna Millar of Kanata, a student in the College of Physical and Engineering Science. The diploma award went to OAC student Carolyn Pedlar of Meaford.

Vaughan Medal

Brendon Larson of Harrow, an undergraduate student in the College of Biological Science, has been awarded the Walter Vaughan Medal for his service as a student representative on Senate.

The medal is named for the late Walter Vaughan, a former secretary of Senate.

Larson has served on several Senate committees and been involved in campus activities such as the February 1994 Teaching and Learning Conference, the United Way campaign, the CBS dean search committee and strategic planning. He is also a member of the varsity swim team and an avid intramural player. □

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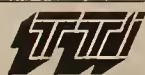


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A growing proposition

A \$500,000 controlled growth facility — the Weed Science Phytotron Rooms — was officially opened in the Bovey Building last month. Major donors to the facility are BASF Canada Inc., DowElanco Inc., Rhône-

Poulenc Canada Inc. and the Turfgrass industry through the Guelph Turfgrass Institute. Checking out the facility are, from left, OAC associate dean Bruce Stone, DowElanco president John Oliver, President

Mordechai Rozanski, Rhône-Poulenc president Bernard West and Richard Elliott of Constant Temperature Control Ltd., the Mississauga firm that designed the facility.

Photo by Don Hamilton, Environmental Biology

Transgenic field trials continue

The Department of Crop Science will continue to field test transgenic plant material this summer at the Elora Research Station and on rented land near Alma, says department chair Prof. Dave Hume.

Since 1989, the department has been field testing crop plants genetically engineered to contain genetic material not associated with their species. This gives researchers an opportunity to study the agronomic performance of these modified crop plants under field conditions, Hume says.

This year, the department will evaluate the following transgenic lines:

- alfalfa carrying a potential stress-tolerance gene (alcohol dehydrogenase) from a relative of canola;
 - alfalfa carrying a potential stress-tolerance gene (superoxide dismutase) from a relative of tobacco;
 - canola carrying microbial genes that may aid hybrid seed production;
 - canola carrying microbial/plant genes that may allow improved weed control with less applied herbicide and less herbicide residue;
 - canola carrying plant genes that may alter the fatty-acid composition in the oil (increased stearate and laurate), potentially resulting in specialty oils; and
 - soybeans carrying microbial genes that may allow improved weed control with less herbicide and fewer residues.
- The department will also be launching a long-term trial at Elora to determine the potential of transgenic canola to persist in years after it is initially grown, Hume says.
- "Individually, these transgenic lines have the potential to improve agronomic, environmental and end-use characteristics of these important field crops," he says. □

UNIX system proves a boon in the classroom

by Maurice Oishi
University Communications

The biggest change in the history of Computing and Communications Services is starting to spin off its benefits to students.

Last year, U of G began the transition from its IBM mainframe to a cheaper, more effective UNIX system. Over the past year, courses have turned to the new system as a teaching tool because of its emphasis on communication and access to information.

Prof. Don Richardson, Rural Extension Studies, was one of the first to embrace the new system. He's already used the computer's access to Internet databases as a cornerstone for his graduate course on distance education, which he teaches with Prof. Ab Moore. UNIX applications put him and his students in touch with databases throughout the world. But more than just information, he's finding that Internet also gives students a chance to communicate directly with experts who are oceans away.

Bulk mailer

Under the familiar guise of e-mail, a mailing list program allows students to interact one on one. But it also functions as a bulk mailer, allowing individuals to post ideas and questions to all members on the list, often leading to open-ended discussion-like correspondences.

There's another advantage to a mailing list — the ability to include off-campus experts in the mix. The mailing list for Richardson's course on distance education, for example, includes experts from as far away as the University of New Mexico. At the same time, it has allowed the stu-

dents to act as de facto consultants to a project to establish distance-education courses for New Brunswick community colleges.

"We talk about education in terms of content and process," says Richardson. "This is on the process side." In this case, it's a process that can be moulded to the individual student's needs. "If they see how this fits into their needs, they'll use it and use it in a significant way."

Teaching students to use the mailing list also encourages them to learn about other Internet resources, he says. "I would say that 100 per cent of the students in this program have used Internet in one way or another."

Like a mailing list, Netnews forums allow students to interact with one another and their professor, both collectively and one on one. For Bo Wandschneider, the computer co-ordinator in the Department of Economics, the choice between Netnews forums and mailing lists for his department's students was simply a matter of understanding Netnews applications better.

Unlike conventional Netnews forums, the ones that Wandschneider set up for economics courses are only distributed across campus, not globally, he says. And the messages posted to the forum are maintained for student access for the entire semester, not simply a few days or weeks.

In some courses, the forums are used as file storage sites, giving students access to templates, programs and course information. Wandschneider says this is important for a stockmarket simulation that is run from Wilfrid Laurier University and used in the equities course. The realistic simulation relies on a forum to act as a "jump-

ing-off point," providing the necessary electronic tools. E-mail then forms the backbone of the system, allowing students to manage portfolios, interact with brokers and keep updated on their local and national ranking in the mock market.

In other courses, however, the goal behind using a newsgroup is to provide an interactive environment.

Forum for learning

Of the forums Wandschneider has set up, it's the one for a third-year econometrics course that's most widely used. Last semester, 162 messages were posted to the group, not including the mass of messages posted between individuals. Messages range from the technical, as students learn how to operate the system, to the theoretical, as they begin to use the forum for learning.

Wandschneider notes that the advantage of a forum in a lecture-based course is that it saves time. Because everyone has access to the information posted to the forum, the professor need only answer a particular question once, "instead of 20 times a week."

Course instructor Prof. David Prescott says that, in effect, the forum allows him to extend his office hours for all 110 students. "I log in two or three times a day," he says. "One Sunday night, someone posted a question at 10:30 p.m., and since I just happened to be logged in, I had an answer out by 11."

Prescott notes that the new UNIX environment is ideal for econometrics and not just because of the Netnews forum. "I think of it as a report-writing course," he says. Although that's only one of the goals — lectures focus on theory and methodology — the new

UNIX environment integrates electronic communication, accessing data, statistical analysis, graphing and report-writing applications.

All this can be readily done on the UNIX system and a desktop computer, he says.

Like a growing number of faculty in the Department of Economics, Prescott puts his course notes and last year's final exam on the local network open to undergraduate students. Students can then save them on a disk or make a copy of them on the printer.

Although this latter option isn't directly related to the new UNIX system, says Prescott, as a whole, the direction of the course is to introduce students to applications they'll use after they graduate.

Although his course only nibbles at the edges of Internet, he says it's an important first step into the network. "Not only is the new system useful in the course," he says, "but you're also opening a huge, huge window to the much wider world." □

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OUR COMMUNITY

NOTICES

Garden tour

The Macdonald Stewart Art Centre will hold its annual fund-raising garden tour June 19 from 1 to 5 p.m. The tour will visit six of Guelph's public and private gardens, including the Gosling Wildlife Gardens at the Arboretum. Cost is \$7 for adults, \$3 for children. Call 837-0010 for more information.

Convocation parking

During convocation week, lots P23 and P24 by the Textiles Building and P44 by Johnston Hall are reserved for convocation guests. This does not apply to premium parking spaces. Alternative parking for regular users can be found in P7, P17 and P19.

Inuit art

An exhibit of Inuit textile art called "Northern Lights" opens June 16 at the Macdonald Stewart Art Centre. An opening reception begins at 7:30 p.m. and will include a gallery talk by art centre director Judith Nasby. The exhibit features 30 textiles woven by the women of Baker Lake.

Rose workshop

The Arboretum is running a rose workshop June 15 beginning at 7 p.m. It will include a tour of the Arboretum's rose collection. A rose of your choice from cuttings prepared during the workshop will be available. Register by June 6 at Ext. 4110.

It's an art

The Macdonald Stewart Art Centre will hold art classes for children aged five to 13 this summer. Classes will be offered in five-day sessions from 10 a.m. to 3 p.m. during July and August. Cost is \$95 general, \$85 for art centre members. Register at the art centre.

Learning about water

Teach your children about the importance of water at the Ontario Agricultural Museum in Milton June 6 to 10. The museum will feature an educational and interactive program for children to learn the significance of ground water in our lives. Museum hours are 10 a.m. to 5 p.m. daily.

Call for volunteers

Alumni Affairs is looking for volunteers to help out at various events during Alumni Weekend June 17 to 19. For more information, call Sue Lawrenson at Ext. 6963.

Country auction

Guelph Women in Networking will hold its fifth annual country auction June 7 to raise funds for its scholarship program, which encourages female students to enter non-traditional fields. Dinner begins at 6 p.m. at the Holiday Inn. For reservations, call Mary McLean at 836-0390. ☐



Book 'em

The Department of Pathology celebrated the publication of recent texts that had major input by members of the department. Holding their books are, front row from left, Prof. Julie Yager, Gary

Smith, Prof. Dale Smith and Prof. Joe Geraci. In back row are Prof. Brian Wilcock, John Barta, Prof. Bruce Hunter and Prof. Dean Percy.

Photo by Margaret Auchterlonie, OVC Media Centre

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Storkcraft crib and mattress, white with yellow sides, 763-2783.

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Clay bricks, tan color; three gallons Sears acrylic latex satin flat white exterior paint, one-coat weather beater; two gallons oil-based primer, 763-3103.

Strawberry and raspberry plants, Ontario-grown, 766-0183 after 6 p.m.

New smoke-grey desk trays; new three-ring binders, some with plastic, Ext. 2965 or 821-5502.

FOR RENT

Two-bedroom secluded cottage in Rockwood, available June 1, \$950 a month plus hydro, 856-4170 or 856-9492 evenings.

Two-bedroom apartment, unfurnished with stove and fridge, lots of closet space, Willow Road area, utilities included, available immediately, references, 821-5412 evenings.

Furnished three-bedroom house, eat-in kitchen, dining room, fenced yard, General Hospital area, close to downtown and schools, available August 1994 to August 1995, \$1,200 a month plus utilities, Ext. 2780 or 763-5890.

Furnished old farmhouse near Warton, close to Lake Charles, available for weekends, weekdays or monthly between June and September, reasonable, 822-2534 evenings.

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CALENDAR

THURSDAY, JUNE 2

Pathology Seminar - Graduate student Peter Holz talks about "The Reptilian Renal Portal System and its Effect on Drug Kinetics" at 11:10 a.m. in Pathology 2152.

Economics Seminar - John Helliwell of the University of British Columbia, who received an honorary doctorate of science at convocation this week, will discuss "Asian Economic Growth" at 4 p.m. in MacKinnon 309.

FRIDAY, JUNE 3

Symposium - "Reproductive Biology in the 21st Century" is the topic at 9 a.m. in OVC Learning Centre 1714.

Botany Seminar - Kevin Gould of the University of Auckland looks at "Metamorphosis in Plants: A New Zealand Phenomenon" at 10 a.m. in Axelrod 309.

Nutritional Sciences Seminar - Prof. George Bubenik, Zoology, discusses "Localization and Physiological Significance of Melatonin in the Digestive System" at 11:10 a.m. in Animal Science and Nutrition 141.

Biomedical Sciences Seminar - Graduate student Claudia Jimenez considers "A Dual Cortex Function During Pregnancy in Angora and Non-Angora Goats" at noon in OVC 1642.

Cycling Club - A 25-km off road ride leaves from the UC south doors at 5 p.m.

SUNDAY, JUNE 5

Cycling Club - A 30-km ride to Arkell/Crieff/Downey Road leaves from the UC south doors at 10 a.m.

Arboretum - Snakes and turtles should be out soaking up the sun today, making it easier to observe their reptilian ways on a walk that leaves at 2 p.m. from the nature centre.

JOBS

As of *At Guelph* deadline May 27, the following opportunities were available:

Sexual and Gender Harassment Adviser, Office of the President, temporary full time, June 20 to Jan. 27/95. Normal hiring range: \$32,400 to \$38,070 a year.

The following positions were available to on-campus employees only:

Secretary, Economics Department. Salary range: \$13.17 minimum, \$16.46 job rate, \$19.76 maximum.

Counsellor's Assistant, BA Counselling Office, four days a week. Salary range: \$13.17 minimum, \$16.46 job rate, \$19.76 maximum.

Supervisor of Intramurals, Athletics Department. Salary commensurate with qualifications and experience. □

WEDNESDAY, JUNE 8

Biochemistry Seminar - Judy Bolton of Queen's University discusses "Reactive Metabolites Formed from the Cytochrome P450-Catalysed Oxidation of 1,1-Dichloroethylene and Saffrole" at noon in MacNaughton 222.

Cycling Club - A 19-km ride to Silvercreek/Victoria Road extension leaves from the UC south doors at 5 p.m.

THURSDAY, JUNE 9

Pathology Seminar - Graduate student John Lumsden talks about "Gill-Associated Antibody and Bacterial Gill Disease" at 11:10 a.m. in Pathology 2152.

FRIDAY, JUNE 10

Nutritional Sciences Seminar - "Equity in the Classroom" is the topic of a video presentation and talk by human rights adviser Indira Ganeshall at 11:10 a.m. in Animal Science and Nutrition 141.

Biomedical Sciences Seminar - Graduate student Carole Galligan looks at "Effects of IL-8 on Bovine Neutrophil" at noon in OVC 1642.

Cycling Club - A 25-km off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, JUNE 12

Cycling Club - A 42-km ride to Hespeler/Maryhill leaves from the UC south doors at 10 a.m.

Arboretum - If bugs make your skin crawl, you'll find today's afternoon walk an interesting way to learn about insects. Meet at 2 p.m. at the nature centre.

TUESDAY, JUNE 14

Professional Staff Association - The PSA's annual general meeting begins at noon in UC 103. Guest speaker is Prof. Constance Rooke, associate academic vice-president.

Cycling Club - A meeting begins at 7 p.m. in Athletics Centre 203.

WEDNESDAY, JUNE 15

Cycling Club - A 27-km novice ride to Rockwood leaves from the UC south doors at 5 p.m.

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THURSDAY, JUNE 16

Pathology Seminar - Graduate student Vaughan Ostland discusses "Studies on the Virulence of *Flavobacterium Branchiophilum* in Experimentally Infected Salmonids" at 11:10 a.m. in Pathology 2152.

FRIDAY, JUNE 17

Biomedical Sciences Seminar - Graduate student Piotr Piotrowski considers "Transmission of Maternal Lymphocytes to the Offspring" at noon in OVC 1642.

Cycling Club - A 25-km off-road ride leaves from the UC south doors at 5 p.m.

WORSHIP

Catholic mass is celebrated Sundays at 10:10 a.m. in the School of Landscape Architecture lobby.

Midweek — A Time with God, a meditative service, is Wednesdays at 12:10 p.m. in UC 533.

Guelph Chinese Christian Fellowship will hold a "Chow Down Night" featuring fun, food, performance and testimony June 3 at 6 p.m. Meet at the University Centre information desk.

Guelph Unitarian Fellowship holds its annual flower communion service June 5 at 10:30 a.m. The fellowship is located on Harris Street at York Road.

Multifaith calendar

June 5 is Nur, the fifth month of the Baha'i year.

In Islam, June 10 is the first of Muharram, the first month of the Islamic year. It celebrates the migration of Muhammad and his followers from Mecca to Medina, where the first Islamic community was established.

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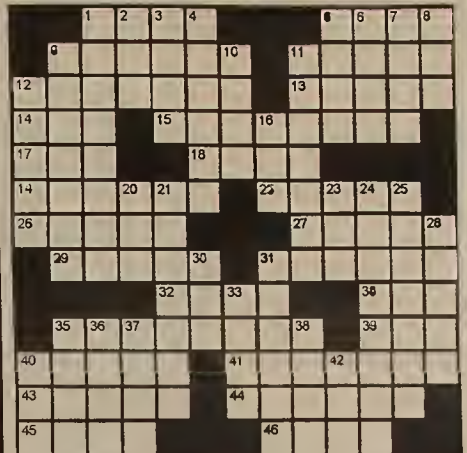
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ACROSS

1. Part of C.O.D
5. Bjornson book
9. Person who delivers goods in trust
11. Sticky
12. Volcano pit
13. Salary increase
14. KKK followers
15. Cinemas alfresco
17. Former heavyweight champ
18. Sleigher's rider
19. ___ or later
22. Steeped grains
26. Visit briefly
27. Offered defiance to
29. Mount Everest is here
31. Ten year period
32. U2 singer
34. Apprehend
35. Steals
39. Depot: abbr.
40. Dugout
41. Venus as the morning star
43. Quechuans
44. Musical exercises
45. Particle
46. Galaxy member

DOWN

1. Muse of epic poetry
2. First ___
3. Santa's vehicle
4. Fright
5. Jai
6. Destroy
7. Headland
8. Aqueous humor location
9. Party decoration
10. Incursion
11. Soldier's pineapple
12. Hold tight
16. Energy
20. Pinch
21. Makes possible
23. Resinous substance
24. Bus ticket
25. Calms down
28. Exclude from
30. Card game

31. Ring-shaped cakes
33. Cleopatra's river
35. Breathe when out of breath
36. Strange
37. Ramble
38. Rabbit tail
40. Agency involved in espionage
42. Actress Lupino

For crossword solution, see page 2.

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You'd be happier, too, if you lived in a penthouse

by Nicole Kennedy
Office of Research

Picture yourself relaxing in a sawed-off barrel under an artificial sun, surrounded by soft, foamy trees. That's the sort of low-tech dream world being created for research and teaching animals on campus at the Central Animal Facility.

A six-member team from Animal-Care Services is designing "natural" environments for laboratory rats, specific-pathogen free cats and other residents of the facility. The emphasis is on both contentment and cash — creating an environment conducive to effective research and animal welfare while being mindful of strapped resources. To this end, the team is using "waste" material generated on campus.

"Much of what is often considered useless or obsolete is fine for us," says team member Chong-Lam Tan. "Rather than purchasing new materials, we're trying to recycle the old as much as possible."

That's meant becoming a repository for all kinds of cleanable, reusable goods. Detergent bottles, for example, are transformed into toys for kittens. Empty cut-down steel barrels become playhouses for cats. Bits of foam bloom into palm trees for frogs, and scrap metal is converted into three-storey rat condos.

In addition to reused materials, other articles are sometimes adapted to new animal-friendly purposes. Cats, for instance, like to bask in the sun, so to keep them happy, the research team uses heat lamps to provide an "indoor sun."

One of the most intricate designs the team has developed is for laboratory rats. Traditionally housed in solitary plastic crates, the animals had limited room to move.

That lack of physical space can reduce animals' motivation, which may impede their use to



Chong-Lam Tan designed this housing unit, which gives lab rats plenty of room to move around. Photo by Trina Kosler, Office of Research

researchers, says Tan.

He has engineered a new three-tiered housing unit that resolves this problem. Its principal feature is that food and drink are kept on different levels. The rats get exercise and an opportunity to stretch out going back and forth.

On level one are food pellets and roomy black tubing typically lined with shredded com husks for bedding, where these social creatures can cuddle together. To get a drink, the rats must climb up a unique outdoor chicken-wire staircase to the second floor, where water and a play area await. To reach their exercise wheel, the rats venture out to the enclosed "penthouse," where they can run to their

heart's content or simply enjoy the view.

Tan, a graduate of Bombay Veterinary College and a practising veterinarian in Malaysia for 11 years, has designed similar environments overseas. When it comes to his surroundings, he sees strong parallels between lab animals and people.

"I equate my own work environment to that of an effective and co-operating family," he says.

"With weekly round-table discussions, all staff, faculty and researchers working at the Central Animal Facility have the opportunity to voice concerns and propose new ideas about the care of the animals." □

High ideals from low technology

by Steve O'Neill
Office of Research

Carpet remnants, pieces of plastic tubing, bits of colored chalk — jettison for the curbside after spring cleaning? To us, maybe, but at the Central Animal Facility, one creature's junk is another's environmental enrichment.

Animal welfare is an ongoing concern at the facility. Visitors to its open house last month learned that a little ingenuity can go a long way toward ensuring that animals used in research and teaching are kept as comfortable and mentally active as possible.

Open house participants saw first hand the high animal-care standards to which the University adheres. One of the most notable features of the facility is its emphasis on environmental enrichment — creating surroundings that are not merely adequate, but actually stimulating for the animals that live in them.

That may seem like a lofty ideal, but achieving it can be simple, inexpensive and very low-tech. It just requires some imagination and whatever resources Animal-Care Services has available.

Some enrichment aids aren't too far removed from what pet owners use to keep their own ani-

mals occupied — a piece of rug for a dog to lie on, a clear plastic bottle filled with colorful chalk for a cat to swat and chase. With other animals, more novel approaches are taken. Rodents are given various sizes of plastic tubing and pipes to crawl through; turtles have different textures and surfaces to climb on.

At Animal-Care Services, high-quality animal care — the first goal in its mandate — is a continuing process. Each month, a different staff member is elected or volunteers to act as environmental enrichment adviser.

That includes making random checks of the animal rooms in the facility. At the end of the month, all staff meet to discuss the advisor's findings and make recommendations about improvements and changes.

Investigators conducting research through ACS are asked to approve any suggested change to ensure it won't interfere with their work.

"Through effective communication between the environmental adviser, staff and investigators, we're continuing to strive to upgrade an enriched environment for our teaching and research animals," says ACS co-ordinator Prof. Denna Benn. □

Women play important role in environmental art movement's growth

by Margaret Boyd
University Communications

Female artists have had a profound effect on environmental art, which has evolved from traditional sculpture to the environment itself as art. Artists such as Frances Loring and Florence Wyle early in the century and today's Ottawa-based "Gaia" artists are part of the historical narrative of art and landscape, says Prof. Nancy Pollock-Ellwand, Landscape Architecture.

Rich history

"The connection of nature and women has a rich history," says Pollock-Ellwand. "The feminine force of sexuality has been linked to nature's profundity and its nurturing. Environmental art is seen as a celebration of both the primal sexual meaning of nature and of female power and matriarchal society."

Early in the century, sculpture was dominated by men, but classically trained artists Loring and Wyle achieved renown and led the way for other women. Much of their work ended up in gardens. This includes classical pieces such as *The Harvester* in the Donald Forster Sculpture Park. Loring and Wyle encouraged other female artists and were active until their deaths in the early '60s.

The work of "The Girls," as Loring and Wyle became known, is representative of the first phase of environmental art — art in a landscape setting.

Three themes

In the design world, three landscape themes or phases are experiencing much activity and attention — folk or communal landscapes, garden as high art and environmental art. It's environmental art that Pollock-Ellwand explores in her work — defining

work in that field by the varying relationship that holds between art and the environment, art in a landscape setting, art and landscape merged as one and landscape as art.

Environmental art evolved from the classical work of Loring and Wyle to see the merging of art and landscape in the '70s and '80s, says Pollock-Ellwand.

This is represented by the work of artists such as American Maya Lin, who won a design competition for the Vietnam War Memorial in Washington while still an architectural student. The memorial merges art and landscape because it is built into the slope of the land.

Political statements

As the medium evolved, female artists began to use it to make political statements. Artist C.J. Fleury and landscape architect Mary Faught, a graduate of Guelph, are Ottawa artists called Gaia who use the art form as a political and feminist polemic. One of their works is a memorial to women who have died at the hands of male partners.

The art of Cornelia Hahn Oberlander, who designed the Taiga Garden for the National Art Gallery in Ottawa, is also emblematic of landscape as art. Consisting of plants from a northern climate, the garden makes an environmental statement because it is inspired by the emergence of the Canadian Shield.

Historically, women have been inspired to create environmental art that is both esthetic and practical, says Pollock-Ellwand. Today, the inspiration is also political. □

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Year

AT GUELPH

FACT:

Percentage of U of G students
who receive some kind of
government funding: 40.

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June 8, 1994

FIRST GLANCE

Parking gets new digs

Parking Administration is on the move. It's leaving Day Hall June 8 for new quarters on the first floor of the Trent Building. Later this semester, Campus Police and the Fire Department will also relocate to the Trent Building.

As the sod turns

A June 9 sod turning for the Village by the Arboretum will kick off the bricks-and-mortar aspect of the new retirement community. Charles Ferguson, vice-president, administration, Mayor John Counsell and Orin Reid of Reid's Heritage Homes will be at the site of the new development to lift their shovels at 10:30 a.m.

Get your Alumnus here

By popular demand, the *Guelph Alumnus* is now available at the *At Guelph* newsstand in the University Centre. Produced by University Communications, the alumni magazine is published three times a year. For more information about the *Alumnus*, call editor Mary Dickieson at Ext. 8706.

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Thought for the week

*A conclusion is the place
where you got tired thinking.*

Martin H. Fischer



Something to cheer about!



To show OAC and the University how much they appreciate their education, the OAC Class of '94 is leaving a legacy for students to come. Over the next five years, 51 class members will each donate \$150 annually, which U of G will put towards life insurance policies in their names. The \$750,000

the program is expected to raise will eventually be used for agriculturally oriented programs on campus. Here, student representative Glenn Barkey, centre, presents a symbolic check to OAC Dean Rob McLaughlin, left, and Chancellor Lincoln Alexander.

Photo by Herb Rauscher, Photographic Services



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Farcus

by David Wapros
Gordon Coulman

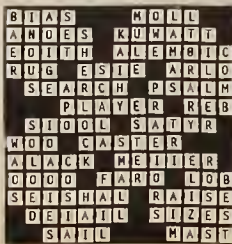
"What d'ya mean? I got the four basic food groups here... Ice cream, chips, chocolate and soda."

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UNIVERSITY OF GUELPH RETIREES ASSOCIATION

Notice of Annual Meeting

The Annual General Meeting of the University of Guelph Retirees Association will be held in the Arboretum Centre on Friday, June 17, beginning at 10 a.m.

The meeting will conclude at approximately 12 noon. Lunch will be available following the meeting at a cost of \$15.00. Those wishing lunch should advise the secretary of the Association, Don Jose, 69 Westmount Road, Guelph, N1H 5H9, telephone 821-6037.

ALL RETIREES AND SURVIVING SPOUSES ARE
WELCOME AND ARE INVITED TO ATTEND.

From the Office of the President

An open letter to the University community

Janet Kaufman, director of employment and educational equity, will be stepping down from that post July 31 to resume a position in the library.

She has been of finestime assistance in carrying forward a number of University initiatives, including the launching of a dialogue with the community on race relations and a suitable human rights policy, as well as carrying out day-to-day administration and reporting of the many facets of our employment and educational equity programs.

She has provided wise counsel in a period of change and development, and her contributions will form the basis for a more comprehensive University approach to equity issues.

With the report of the President's Task Force on Anti-Racism and Race Relations in hand, an important first stage in community discussions about inclusiveness has culminated. The University will begin to take a hard look at an appropriate configuration for responding to human rights issues of all kinds, and Janet will continue to provide assistance in that project.

A working group has been established to advise me by July on a policy framework and structure for an umbrella approach to our institutional responsibilities in the area of human rights, including sexual and gender harassment and discrimination. I look forward to receiving Janet's advice, as I do to engaging in consultation with the entire University community on the best way to proceed together.

In the interim, before a new structure is established, human rights complaints will continue to be handled by human rights adviser Indira Ganasehall. Policy questions and questions regarding jurisdiction should be referred to the President's Office in care of Barbara Abercrombie, who sits on the working group.

President Mordechai Rozanski

LETTERS

Task force report disorganized, badly written

I have just read Prof. Don Stewart's May 25 letter about the report by Task Force 4 of the Strategic-Planning Commission. I agree with all he wrote. The reason I (and many others, I suspect) did not criticize the report when it was published is because it is so disorganized and badly written that few people could be bothered trying to decipher it.

The report is dreadful because of the muddy thinking of the authors (of this and many other University

reports) and their inability to either think or write clearly. As William Zinsser notes in his 1985 book *On Writing Well*: "Clear thinking becomes clear writing; one can't exist without the other. It is impossible for a muddy thinker to write good English." (Zinsser should be required reading for all report writers.)

How can we instruct students to communicate clearly and accurately when we accept such rubbish from our own professors?

Of many examples (practically the whole report), I cite one of the better paragraphs and give a translation into English:

Original: "Like all institutions, Guelph has tried at various times to state values it considers worth articulating. 'Core values' should be that sum of descriptors that characterize an institution as uniquely one thing and not something else, and should be supported by a majority of the institution's members."

Translation: "Guelph, like other institutions, periodically defines

the characteristic and unique core values that most members should support."

I spent two minutes on the translation, and it could be further improved with revision. I doubt that Task Force 4 members did more than churn out a first draft; their report would be unacceptable in a remedial English course. And some of these people have the cheek to mark student essays.

An incredible amount of time and energy is devoted to various task forces. There seems no shortage of highly paid people with nothing else to do but sit on committees and write reports. So, the reports should at least be clear.

Perhaps it is time someone held the bad reports up to ridicule and scorn — it might improve written communication on this campus. So periodically, I think I'll award the "Golden Excrement Trophy" to a deserving committee — an award for expensive crap.

Prof. Michael Brookfield
Land Resource Science

APPOINTMENTS

Tony Abrams-Ogg has been named assistant professor in the Department of Clinical Studies.

Cees de Lange of Saskatoon will become an assistant professor in the Department of Animal and Poultry Science July 1.

Kevin Ecott has changed employment from mail room co-ordinator to mail room supervisor in Mail Services.

Laura Foster of Hamilton has

been appointed assistant internal auditor until Feb. 1, 1996.

Prof. Gerry Manning has been named chair of the Department of English for a five-year term.

Sharon Taylor of the library has been appointed the library's co-ordinator of public relations and publicity.

Claudia Wagner-Riddle has joined the faculty of the Department of Land Resource Science. □

Academic advisers launch conference

U of G hosted the first Conference for Ontario Academic Advisers last month, drawing representatives from universities and colleges across Ontario to share resources and knowledge at a one-day series of workshops.

More than 100 delegates from 16 universities and seven colleges compared notes on such topics as "Technology in Advising," "Advising Students in Crisis" and "What Does It Take to Be an Academic Adviser?"

Born last year

The idea for the conference was born last year at the National Advising Association (NACADA) conference in Detroit, says Virginia Campbell, academic assistant to the dean of FACS.

"NACADA members come from across North America, but there were very few Canadians at the conference," says Campbell. "The Canadians got together and decided that Canadian advisers would benefit from forming links. Then three Ontario people got together and decided to organize a conference here."

It took six months of planning by Campbell and two colleagues at York University and Carleton, but the effort was worth it, she says, because the conference filled a real need.

Masters of all

"Academic advisers are jacks of all trades who try to be masters at all," she says. "You're not a personal counsellor, but you are. You don't teach, but you do. Advisers bridge the gap between university administration and the students, and we felt we could learn about how other universities and colleges deal with advising."

One of the biggest challenges of the conference was getting people here at little cost, says Campbell. The organizing committee started out with no money and gives credit to FACS Dean Richard Barham for his support.

Delegates decided to make the conference an annual event, to expand it to two days and to circulate hosting among the participating institutions. It will be held again next May at a yet-to-be-determined location. □

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At Guelph welcomes contributions from the University community, including letters to the editor, opinion pieces, publications and news about faculty, staff and student activities. Deadline is Wednesday at noon unless otherwise specified. Articles may be reprinted with permission of the executive editor.

At Guelph headlines top stories and coming events can also be accessed on GRIFF. Offices: University Communications, Level 4, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Telephone: 519-824-4120, Fax: 519-824-7962. Office hours: 8:30 a.m. to 4:45 p.m.

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A united team

This year's co-chairs of the campus United Way campaign are Chuck Cunningham, assistant registrar for liaison, and Prof. Denna Benn, director of Animal-Care Services. Unfurling the United Way flag above are, from left, Cunningham,

Guelph-Wellington campaign director Allison Haskin-Brown and Benn. Anyone interested in volunteering to help with this fall's campaign should call Benn at Ext. 4305 or Cunningham at Ext. 6054.

Photo by Maurice Oishi

Addictions symposium to focus on the family

Addictions '94: The Family, an international symposium focusing on alcoholism and addiction, is being held on campus June 9 to 11.

Sponsored by U of G and Homewood Health Centre, the symposium is examining the influence of addiction on the spectrum of family life, from the newborn to the elderly.

Research shows that 25 per cent of families are directly involved with an addicted person. Statistics also indicate that 20 to 30 per cent of hospital patients have a drug or alcohol problem.

Psychiatrists, physicians, nurses, teachers, social workers, clergy and police officers from across Canada and the United States are attending the symposium. Keynote speaker is Claudia

Black, a renowned lecturer, author and trainer recognized for her pioneering work with dysfunctional families. Her publications include *It Will Never Happen to Me* and *It's Never Too Late to Have a Happy Childhood*.

Workshops will examine such topics as "Addiction in Pregnancy: Effects on the Fetus and Newborn Infants," "Drug and Alcohol Issues in the Elderly" and "Helping Recovering Parents Heal Their Guilt and Shame About How Addiction Affected Their Parenting."

Stephen Pierce, director of Community Alcohol and Drug Services in Guelph, will give the Homewood Distinguished Lecture June 11 on "Knowing You, Knowing Me." □

Senate supports procedures for strategic-planning consultation

Senate gave its support May 30 to a process for bringing Strategic-Planning Commission (SPC) reports and recommendations to the academic governing body.

Prof. Bill Hughes, Philosophy, told senators at the special meeting that Senate's executive committee wants to establish a process that will give senators ample opportunity to discuss and debate SPC's reports and recommendations before going to Senate for approval. At the same time, the committee wants to ensure that decisions can be reached and action taken within a reasonable time period.

When the draft strategic vision statement is available to the University community (it's slated for the middle of June), Senate will hold a special meeting to discuss the document in committee of the whole, and these comments will be forwarded to SPC as it prepares its interim report.

The interim report will be distributed to the University community for comment in September. It will again be discussed by senators in committee of the whole and, if executive committee considers it appropriate, by Senate's standing committees. Comments out of this meeting will be forwarded to SPC for consideration

as it prepares its final report.

The president is expected to receive SPC's final report at the end of November. At the same time, it will be deposited with Senate for information. A special meeting of Senate will be held to discuss the report in general in committee of the whole.

The executive committee will be responsible for reviewing the report and determining which matters impinge on academic programs and therefore fall under Senate's purview. Hughes said this committee is the appropriate body to perform this task because it is made up of the chairs of all Senate committees and the president.

The executive committee will also be responsible for determining the appropriate consultation needed before formally bringing recommendations arising out of the report to Senate for approval. Some of these recommendations may cross the responsibility of a number of Senate committees, and some may be interrelated in a complex manner, said Hughes.

To deal with these recommendations in a timely fashion, the executive committee may decide to suspend Bylaw F 13, which states that any written communication to Senate on a subject falling under

the terms of reference of a committee or board be referred to that particular committee or board, which will then report on it at the next regular Senate meeting.

Rather than send motions to numerous committees, the executive committee may, for some packages of recommendations, follow a different consultative process, said Hughes. For example, the Board of Undergraduate Studies and the Senate Committee on University Planning could be called together to review a proposal, he said.

All recommendations that affect academic policy must, as stipulated in the University of Guelph Act, be brought to Senate for approval. When the recommendations are ready to come to Senate as a whole, the executive committee will prepare packages of recommendations based on the advice of the appropriate committees, said Hughes. It's doubtful that all recommendations will come to Senate at the same time because some will need more consultation than others, he said.

This process ensures that the recommendations will be presented to Senate for discussion and decisions, he said. □

Alumni Weekend June 17 to 19

Fifty years from now, Alumni Weekend's Golden Anniversary Dinner will host an overflow crowd, the result of last week's record-breaking convocation of more than 2,100 students. But the 50-year grads attending this year's dinner June 18 will be one of the smallest in history, one of the lasting effects of the Second World War.

During the war, many OAC and OVC students interrupted their studies to enlist. And because the Macdonald Institute was closed from 1943 to 1946 so the facilities could be used to train wireless operators and RCAF cooks, there were no graduates in 1944.

These are some of the memories that will be relived as friendships are rekindled during Alumni Weekend June 17 to 19. Golden anniversary alumni will be joined by graduates of other years for activities that include a welcome barbecue, wagon tours, an Arboretum nature walk, slo-pitch tournament and observatory tours.

The U of G Alumni Association and college alumni

associations will hold annual meetings, and many individual classes will meet for reunion luncheons and dinners.

The HAFA Alumni Association is celebrating the school's 25th year with an alumni and student picnic Saturday at Bingemans Park in Kitchener. Cost is \$8 for adults, \$4 for children. For information, call Laurie Malleau at Alumni House, Ext. 2102.

The weekend will also feature a ground-breaking ceremony for the planned addition to the FACS Building Saturday at 3 p.m. and presentation of the Gord Nixon Leadership Awards to four campus student groups. Named for former Alma Mater Fund chair Gord Nixon, the 1994 awards will provide support to the Race Relations Resource Centre, the All African Students Conference, the Student Leadership and Involvement Resource Centre and the CFRU Volunteer Academic Award.

At Sunday's farewell brunch, OAC '34 graduate Gordon Henry will be named Alumnus of Honor. □

Avoid food risks this summer

by Margaret Boyd
University Communications

Charred steak cooked on the barbecue may be harboring dangerous carcinogens, and poorly cooked meat may contain unhealthy levels of bacteria, says Prof. Kelly Meckling-Gill, Nutritional Sciences.

Summertime foods such as barbecued meat and ice cream can be enjoyed in good health if eaten in moderation and, in the case of meat, if certain procedures are followed, she says.

The biggest summertime food health risks are beef that's charred black on the barbecue and hamburgers that are undercooked. The black on charred meat is actually fat that has undergone a chemical change and been transformed into

aromatic hydrocarbons.

"It is identical to cigarette smoke because of this chemical conversion," Meckling-Gill says. "It is completely different in structure from fat."

The dangers of charred meat are not lessened by using specific types of coal or barbecues — it's the high temperatures that create the problem, she adds.

Hamburger should be barbecued slowly but thoroughly because of a high bacteria content in ground meat.

The leaner the meat the better, because a small difference in fat content makes a big difference for health, says Meckling-Gill.

Barbecued beef can still be enjoyed, if cooked properly and eaten in moderate amounts. Peo-

ple tend to eat more meat in the summer; an average T-bone steak probably has enough protein for two to three people, Meckling-Gill says. She recommends chicken and fish as barbecuing alternatives.

Ice cream is another high-fat summertime food that should be eaten in moderation. Enjoy ice cream, but consider low-fat alternatives such as Popsicles and frozen yogurt, she says.

People should take advantage of the abundance of fresh fruits and vegetables in the summer. For those who enjoy making dips, Meckling-Gill advises using light products and mixing them half and half with low-fat yogurt.

She also recommends diluting fruit juice for children because



they may be consuming too much fructose and calories from regular juice, but they need extra water during the hot summer months.

Some other tips for avoiding food problems in summertime:

■ Transport perishable foods in an insulated cooler.

■ Wash hands thoroughly before preparing food.

■ Wash the outside of raw eggs before cracking them if using them raw — salmonella grows on the uncooked eggshell.

■ "The nose knows" when it comes to spoilage. □

The University's 2,108 spring graduates gathered together last week to receive their degrees and diplomas. On these pages, *At Guelph* provides some highlights from convocation week.

Push to new heights

Change, although intimidating, guarantees options for graduates. That was the message delivered to OAC diploma recipients May 31 by Elmer Buchanan, Ontario minister for agriculture, food and rural affairs, and honorary doctor of laws recipient Mac Cuddy.

"Change is the status quo," said Buchanan. He urged graduates to continue to learn, to "explore your boundaries and then push them to new heights."

He encouraged them to not just live in their communities, but also to lead them. The need to revitalize rural communities has struck a chord with his own ministry, he said. "This is where you come in. We... will need your ideas, your energy and your talent to help put our rural communities back on track."

Cuddy, a 1942 OAC graduate

who took a turkey farm near London and turned it into one of the biggest poultry producers in the world, offered a complementary message. "Global markets are to be welcomed, not feared," he said. "Canada can compete everywhere."

At a personal level, he said the key to his success — and personal sense of satisfaction — was accepting the choices he was offered with equanimity and an eye to the future. "No matter how long it takes, the most important thing in life is to do what you want to do. Choose."

If your first job isn't ideal, he told the graduates, you should accept the experience, not fear mistakes and continue to look for new opportunities. "Success, in the end, always eclipses the mistakes made along the way." □

Take the first step

Prof. Alex Michalos, Philosophy, stuck to his promise to "be brief, inspirational and not to cry" as he addressed graduates of the College of Arts Wednesday morning.

"The briefest inspirational message I could think of was: 'Good luck, give 'em hell and good-bye,'" he said. But he also spun off further words of wisdom culled from his own experiences.

Michalos recalled the admonishment his mother once gave him and his brother as they left for a night on the town. To him, she offered: "Have a good time." To his brother, she said: "Be good." He offered the same, if somewhat tempered, advice to his audience:

"For the rest of your lives, have a good time and stay of trouble."

He also recalled from his own undergraduate years a history professor once saying: "Fear works 24 hours a day, but love works only in the moonlight."

"The truth," Michalos refuted, "is that love works 24 hours a day and, more important, it feeds on itself." Although not a biological certainty, "goodwill and kindness tend to reproduce themselves," he said.

As there can be no reproduction of love, goodwill or kindness without some prior effort, "try to be willing to take the first step," Michalos said. □

Keep your objectivity

The two-handed economist is misplaced on the pedestal of social outcasts, says economist John Helliwell.

Receiving an honorary doctor of letters degree at the Wednesday afternoon ceremony, he referred to former U.S. president Harry Truman's plea for economists who wouldn't preface their arguments with the words "on the one hand" and "on the other hand." Yet he urged graduates of the College of Social Science to recognize the need for considered and fair analysis of issues.

It's too easy to kowtow to those who merely want the social scientist to supply them with ready answers or, conversely, to support their already formulated conclusions, said Helliwell. "To the extent social scientists have their fingers on the scales when weighing evidence, they lose the very

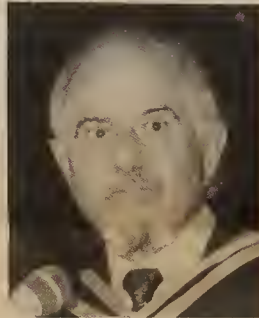
objectivity that underlies their expertise in the first place."

To the other extreme, he warned graduands of heeding the mass media's call for experts merely for the sake of confrontation, what he calls "artificial two-handedness." Such an approach to issues merely elicits the public's belief that evidence can be used to draw any conclusion.

He accepted that personal opinions may play a role in a social scientist's conclusion. Rather than withdraw entirely from such discourse, he said, "make it clear what hat you are wearing and do not stand on credentials to justify a personal opinion. Present the evidence and be prepared to take your knocks."

Also at the afternoon ceremony, retired political studies professor Henry Wiseman was named professor emeritus. □

Congratulations to the



Professor emeritus Henry Wiseman



Above: Mac Cuddy
Right: John Helliwell



Hazel Moore came from South Africa to see her son, Shaun, receive his B.Sc. June 2. Here she catches up with him as he leaves the dais on his way to pick up his parchment.



Convocation photos and stories by Herb Rauscher, Photographic Services, and Maurice Oishi, University Communications

he class of June '94



David Armstrong, left, and professor emeritus Freeman McEwen.



University fellow Keith Ronald

Savor the rewards of the voyage

Like ancient mariners returning from voyages beyond the edge of their maps, graduates can take heart in their personal voyages to terra incognita. That's what retired zoology professor Keith Ronald told graduating College of Biological Science students at the Thursday morning ceremony, where he was named a fellow of the University.

Ronald reminded graduates about the overwhelming experience of their first days at university. Like the old navigators with their inadequate maps, the students faced the unknown — "dragons both real and imagined."

He told the tale of rebel crusader Sieur de Dieudonne, who set about slaying the last of the drag-

ons in the 1400s. With his horse and dogs dead on the slain dragon, de Dieudonne could bring back only the dismembered tongue as evidence of his conquest. When a merchant tried to take credit for killing the last dragon, with the rotting carcass of the dragon in tow as proof, de Dieudonne revealed the severed tongue, proof positive of his claim.

For graduates, their university degree is the dragon's tongue, said Ronald. De Dieudonne "claimed the dragon by showing the animal's tongue — you hy taking the hard path and keeping the truth and taking the consequences." □

Keep an open mind

Trust to chance, but recognize the opportunities and responsibilities it bears. That's what animal scientist Christopher Polge told graduates at the Thursday afternoon ceremony for OVC and CPES.

Polge, the recipient of an honorary doctor of science degree, told how luck played a hand in his role in founding the field of cryobiology. It was a mislabelled bottle that led him to discover that glycerol can protect sperm from death as a result of freeze storage.

When such serendipitous events occur, "it's important that they aren't discarded because they

don't conform to expectations," he said. As a result of his work, in vitro fertilization and artificial insemination are realities. "Keep an open mind," he advised.

Polge told the graduates that the onus is on them to ensure that technology is used responsibly. "I think there's a moral responsibility for those of us qualified in science to lead others to a better understanding of science. It's only through understanding that we can arrive at the morals necessary to determine how science will be used." □



Canadian arm-wrestling champ Sue Morrison has another reason to be proud. She received her B.Sc. from OAC June 3.

Use change to grow

Brooking change poses challenges, but propelling that change offers singular rewards, family therapist Dr. Nathan Epstein told FACS graduates at the Friday morning ceremony, where he received an honorary doctorate of science.

With change now a fact of life, constant upgrading of knowledge and skills are vital, said Epstein. No doubt this reality makes change frightening, but the real joy is in championing change, he said. "In plain language, I have

found working with change to be plain fun."

Epstein, a pioneering researcher in the area of family health who founded the department of psychiatry at McMaster University, told the graduates to remember that change is not always benign and positive nor is it often welcomed. But "it can only be avoided at a drastic price," he said. "It should be grasped as an opportunity for individual growth and an opportunity to contribute." □

Educate about science

The technology behind Aldous Huxley's *Brave New World* exists now, and the potential for Michael Crichton's *Jurassic Park* is real, says David Armstrong, recipient of an honorary doctor of science.

Delivering the convocation address to OAC graduates Friday afternoon, Armstrong said the technologies behind Huxley's novel — oral contraception, in vitro fertilization and cloning techniques — may exist or are incipient, yet they have paved a different path than that described in the 1930s novel. And although Crichton's more contemporary novel paints a horrific picture of technology run amok, the future painted by science fiction needn't be tomorrow's reality, he said.

The benefits of new technologies for human medicine are indisputable, said Armstrong, but they demand a high level of understanding. He urged the graduates to educate the public about science, whether as practitioners, educators or individuals in fields where they deal with the public. He said he hoped some of them would enter politics, because "politicians with at least some science education are likely to be more aware of the issues and more receptive to input on behalf of science."

Also at the afternoon ceremony, retired OAC dean Freeman McEwen was named professor emeritus. □



Nathan Epstein



Christopher Polge

OUR COMMUNITY

NOTICES

Loan symposium

The Council of Ontario Universities and the Ontario Ministry of Education and Training will hold a national symposium to discuss a plan for income-contingent repayment of student loans Sept. 22 and 23 at Queen's Park. Cost is \$150. For more information, call 416-326-2461.

Community planning

"Ecosystem Protection in an Urbanizing Environment" is the topic of an all-day seminar June 21 at the Arboretum Centre. Organized by the Credit Valley Conservation Authority, the School of Land-

scape Architecture and the University School of Rural Planning and Development, the seminar will look at innovations in planning and design. Keynote speaker is Prof. George Penfold, USRP&D. Cost is \$55. Registration deadline is June 14. For more information, call Mike Puddister at 1-800-668-5557, Ext. 237.

Environmental values

The Institute for Environmental Values Education is holding an international professional development session July 9 to 15 in Victoria, B.C. Details are available at the International Education Services InfoCentre on Level 4 of the University Centre.

Weight Watchers

An information/registration meeting for the Weight Watchers at Work program will be held June 10 at noon in Room 237 of the MacKinnon Building. For more information, call Gisele MacNeil in Occupational Health at Ext. 2133.

Youth forum

An international forum on "Youth Prospects 2000 — Choices and Voices" will be held Aug. 28 to 31 in Singapore. Details are available at the International Education Services InfoCentre on Level 4 of the University Centre. The InfoCentre also has information about the Canada-Commonwealth Human Ecology Council's field-

study program to the Himalayas July 25 to Aug. 27. Application deadline is June 30.

Job workshops

The Guelph Centre for Employment Workers is offering free workshops on résumé writing and interview skills. They are held every Monday to Wednesday at the centre, which is located at 5 Douglas St. Call 821-3001 to sign up.

Appreciation night

Environment Week Community Appreciation Night will be held June 9 at 7:30 p.m. at the Loft on Carden Street. Admission is free. Entertainment will be provided by Ruckus in the Rainforest, a local environmental theatre troupe. □

GRAD NEWS

The final examination of Daniel Ashbourne, a PhD candidate in the Department of Psychology, is June 17 at 9 a.m. in Room 427 of the University Centre. The thesis is "Adolescent Pregnancy Decision Making: Attitudes and Behavioral Intention Relationships." Ashbourne's adviser is Prof. Mike Sobol.

Interested members of the University community are invited to attend. □

Workshops focus on teaching

Teaching Support Services is offering a series of workshops on learning and teaching in June.

On June 14, Graham Gibbs of the Oxford Centre for Staff Development in the United Kingdom discusses course design strategies from 9 a.m. to noon in Room 442 of the University Centre.

On June 22 from 9 to 11 a.m., Diana Oblinger of the Institute for Academic Technology at the University of North Carolina leads a session on "Active Learning with Multimedia." This workshop is co-sponsored by Computing and

Communications Services.

Also scheduled for June 22 are two technology briefings — a noon-hour discussion of "Strategic Applications of Information Technology for Learning" and a look at "Efficient Authoring for Multimedia" from 2:30 to 4 p.m. All June 22 sessions are in Room 1642 of OVC.

Register for the workshops by calling Helen Martin at Ext. 3522, in person at the Teaching Resource Centre in Day Hall or by electronic mail to register@tss.uoguelph.ca. □

CLASSIFIEDS

FOR SALE

Used wall-to-wall carpeting, computer stand on casters, 821-2613 evenings.

Carpet and underpad, 10 feet by 12 feet, medium green, excellent condition, 853-2867 after 5 p.m.

Multi-family garage sale, June 11, 8:30 a.m. to 1 p.m., Blueforest Crescent (Hwy. 6 North to Hamilton Road).

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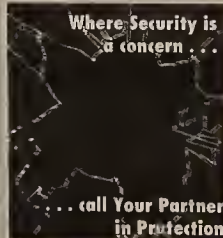
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CALENDAR

WEDNESDAY, JUNE 8

Biochemistry Seminar - Judy Bolton of Queen's University discusses "Reactive Metabolites Formed from the Cytochrome P450-Catalysed Oxidation of 1,1-Dichloroethylene and Saferol" at noon in MacNaughton 222.

Cycling Club - A 19-kilometre ride to Silvercreek/Victoria Road extension leaves from the UC south doors at 5 p.m.

THURSDAY, JUNE 9

Pathology Seminar - Graduate student John Lumsden talks about "Gill-Associated Antibody and Bacterial Gill Disease" at 11:10 a.m. in Pathology 2152.

FRIDAY, JUNE 10

Nutritional Sciences Seminar - "Equity in the Classroom" is the topic of a video presentation and talk by human rights adviser Indira Ganeshall at 11:10 a.m. in Animal Science and Nutrition 141.

Biomedical Sciences Seminar - Dr. Stephen Wachtel, a professor of obstetrics and gynecology at the University of Tennessee, discusses "Fetal Cells in the Maternal Circulation: Isolation and Prenatal Diagnosis" at noon in OVC 1642.

Cycling Club - A 25-km off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, JUNE 12

Cycling Club - A 42-km ride to Hespeler/Maryhill leaves from the UC south doors at 10 a.m.

Arboretum - If bugs make your skin crawl, you'll find today's afternoon walk an interesting way to learn about insects. Meet at 2 p.m. at the nature centre.

TUESDAY, JUNE 14

Animal and Poultry Science Seminar - Graduate student Stephanie Reedy looks at "Cryopreservation of Dissociated Chicken Blastodermal Cells" at 11:10 a.m. in Animal Science 306.

Professional Staff Association - The PSA's annual general meeting begins at noon in UC 103. Guest speaker is Prof. Constance Rooke, associate academic vice-president.

Cycling Club - A meeting begins at 7 p.m. in Athletics Centre 203.

WEDNESDAY, JUNE 15

Rural Extension Studies Colloquium - "Stakeholders and the Participatory Agenda" is the focus of international consultant Janice Jiggins at noon in MacKinnon 307. Jiggins is a specialist in participatory rural development, women in development and smallholder extension strategies.

Cycling Club - A 27-km novice ride to Rockwood leaves from the UC south doors at 5 p.m.

THURSDAY, JUNE 16

Pathology Seminar - Graduate student Vaughan Ostland discusses "Studies on the Virulence of *Flavobacterium Branchiophilum* in Experimentally Infected Salmonids" at 11:10 a.m. in Pathology 2152.

Animal and Poultry Science Seminar - "The Application of Cost-Benefit Dominance to the Assessment of Farm-Animal Quality of Life" is the topic of graduate student Allison Taylor at 11:10 a.m. in Animal Science 141.

Macdonald Stewart Art Centre - An exhibit of fruit textile art called "Northern Lights" opens with a reception at 7:30 p.m. Art

centre director Judith Nasby will give a gallery talk about the show, which features textiles by the women of Baker Lake.

FRIDAY, JUNE 17

Biomedical Sciences Seminar - Graduate student Piotr Piotrowski considers "Transmission of Maternal Lymphocytes to the Offspring" at noon in OVC 1642.

SUNDAY, JUNE 19

Garden Tour - The Macdonald Stewart Art Centre hosts its annual fund-raising garden tour from 1 to 5 p.m. The tour will visit six of Guelph's public and private gardens, including the Gosling Wildlife Gardens at the Arboretum. Cost is \$7 for adults, \$3 for children. Call 837-0010 for information.

TUESDAY, JUNE 21

Animal and Poultry Science Seminar - Graduate student Charles Mwenda discusses "Tannins in Tropical Forage and Browse Legumes: Characterization and Effect on Ruminant Biological Activity" at 11:10 a.m. in Animal Science and Nutrition 306.

WORSHIP

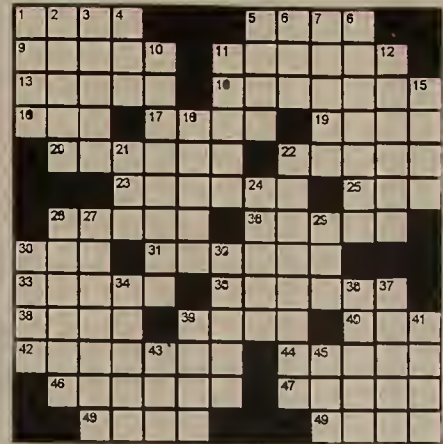
Catholic mass is celebrated Sundays at 10:10 a.m. in the School of Landscape Architecture lobby.

Multifaith calendar

In Sikhism, June 13 is a celebration of the Martyrdom of Guru Arjan Dev Ji. The fifth Guru, he built the Harimandir (Temple of God) in which Sikhs could meet for worship in the town of Amritsar.

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Canadian Criss Cross by Walter D. Feener



ACROSS

1. Oblique line
5. Gangster's girlfriend
9. Llama's habitat
11. Arabian sheikdom
13. "All In The Family's" dingbat
14. Distillation apparatus
16. What a dancer would cut?
17. Italian noble family
19. Singer Guthrie
20. Investigation
22. Sacred song
23. 1972 PGA champ
25. Confederate soldier
26. Foot rest
28. Spotted butterfly
30. Seek in marriage
31. Furniture wheel
33. Exclamation of regret
35. Profession
38. Dumb bird?
39. Card game
40. Throw underhanded
42. Pertaining to earthquakes
44. Elevate

DOWN

46. Particular
47. Treats wallpaper
48. Navigate a ship
49. Beechnuts
21. Mindanao volcano
22. Roman magistrates
24. Oleate
26. Sung alone
27. Obsequious flatterers
29. Three prefix
30. Chews of tobacco
32. Microscopic
34. Rib
36. "My Fair Lady" character
37. Sources of attar
39. Give out
41. Of the highest quality
43. ___ tai
45. Point a weapon

For crossword solution, see page 2.

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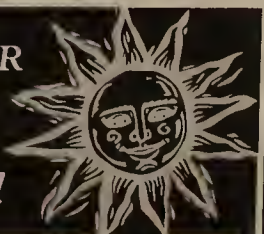


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Five campus scientists receive MRC funds to study diseases

by Tammy Grime
Office of Research

Canada's leading source of medical research funding sees U of G as a valuable investment.

The Medical Research Council (MRC) has awarded five Guelph researchers a total of nearly \$870,000 over the next three years.

The MRC is dedicated to keeping Canada at the forefront of scientific discovery, said president Dr. Henry Friesen. In making the funding announcement, Friesen said that despite severe financial constraints, the council has been able to fund a large number of projects.

"This research is directed towards a better understanding of disease, its cure and prevention and to improving the health of all Canadians," he said.

The U of G researchers awarded MRC funding are as follows:

■ Profs. John Phillips and Art Hilliker, Department of Molecular Biology and Genetics, received \$163,116 for their research on amyotrophic lateral sclerosis. Commonly known as Lou Gehrig's disease, it's a fatal, degenerative disease of the nervous system. Phillips and Hilliker have noted that some gene mutations in fruit flies closely resemble the mutations believed to cause the disease in humans. They will use the fruit fly as a model to study these mutations.

■ With his \$216,788 grant, Prof. Bruce Holub, Department of Nutritional Sciences, will continue investigating the role of platelet stimulation in arterial thrombosis, a disorder linked to atherosclerotic cardiovascular

disease (CVD). The stimulation of platelets — clotting materials that circulate in the blood — by external agents is an integral component of arterial thrombosis. A better understanding of the process could provide insights into nutritional and pharmacological approaches to the prevention of arterial thrombosis and CVD.

■ Prof. Rod Merrill, Department of Chemistry and Biochemistry, will use his \$169,243 grant to investigate how *Pseudomonas aeruginosa* — an opportunistic pathogen involved in cystic fibrosis, burns and other disorders — infects the host. Specifically, he'll be looking at a protein toxin secreted by the pathogen, which kills certain mammalian cells. The mechanism by which the toxin does this is not well understood; Merrill hopes that developing a better understanding of how the toxin works will advance the treatment and control of infections caused by *Pseudomonas aeruginosa*.

■ Prof. Chris Whitfield, Department of Microbiology, was awarded \$296,913 to study the layers of polysaccharide or "capsules" that cover the surface of many pathogenic bacteria. Capsules are believed to inhibit the host's ability to rid itself of potentially toxic bacteria, and to prevent or modify its immune response. By investigating the synthesis and regulation of capsules in the pathogenic bacteria *Escherichia coli* and *Klebsiella pneumoniae*, Whitfield hopes to identify the factors that regulate capsule production. □

STUDENT SPEAK

by Justin Diggle



Graduate Studies launches new application package

Anyone who's ever applied for graduate school knows it can be an arduous process. The Faculty of Graduate Studies unveiled a new application package last week that aims to ease the process and maximize its effectiveness.

Unlike the old application system, the applicant is solely responsible for putting the package together and delivering it to Graduate Studies. The applicant gathers sealed transcripts and letters of recommendation and submits them with the application form and fee in a single envelope. The required confidentiality of the process remains assured, says Prof. Susan Pfeiffer, associate dean of graduate studies.

The new procedure has a variety of advantages over the old one, Pfeiffer says. She notes that a successful graduate school experience begins with the matching process among the professor, the program and the applicant. Because the new procedure starts at the department level, "the department can quickly determine if the applicant is on the right track and whether we can deliver what he or she needs."

The new package also reduces the amount of clerical work and number of incomplete files, says Pfeiffer. And submitting all the information at one time "gives an applicant less anxiety over whether all the documents have been received."

The new package is the culmination of two years of planning. The system is the first of its kind in Canada, but has been used extensively in the United States for years.

Any questions about the new process can be directed to Pfeiffer, Chris Goody or Jocelyn Ollerhead in Graduate Studies.

Barbecue plans heating up

It's that time of year again — time to get ready for the annual Community Barbecue. U of G will host its 20th barbecue July 14, and like a fine wine, it continues to get better with age.

With a theme this year of "Building on Tradition," the barbecue will include both traditional activities and some new additions, says Anissa Jones, activities commissioner for the Central Student Association (CSA), which organizes the event.

The live bands, dunk tank and children's activities are back as usual, but Jones hopes to add a family event and to bring in more people from the city.

"The students benefit so much from the city of Guelph," she says, "and the barbecue is our way of giving something back to the community."

Jones and her advisory committee — made up of individuals from across campus — have already met a number of times and have solicited input from a variety of city businesses that cater to students. She admits it's been "a lot of work getting it off the ground."

The Community Barbecue was originally conceived as a way of promoting goodwill between the University administration and students. Over the years, it grew to include members of the city as well. Today, Jones sees the barbecue as "a great way for members of the University and the city and their families to get together and have some fun."

The barbecue relies on volunteers to make the event a success. Volunteers perform many tasks, including selling tickets, giving directions and serving food. Anyone interested in volunteering for this year's barbecue or offering ideas to the advisory committee can reach Jones at Ext. 6743 or at the CSA office, Ext. 6748. □

At Guelph summer schedule

Publication date

June 15
June 22
June 29
July 13
July 27
Sept. 14

Copy deadline

June 8
June 15
June 22
July 6
July 20
Sept. 7



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FIRST GLANCE

Open meetings set

Members of the University community are invited to attend open meetings this month to review the Strategic-Planning Commission's discussion paper, "Framing the Choices," which is included with this week's issue of *At Guelph*.

Everyone is encouraged to attend these meetings and participate in the discussions about future directions for the University.

The meetings are scheduled as follows:

- June 20, 9 a.m. to 10:15 a.m., Room 102 of the MacLachlan Building.
- June 22, noon to 1:15 p.m., MacLachlan 102.
- June 28, noon to 1:15 p.m., Room 442 of the University Centre.

A meeting for alumni will be held June 27 from 6 to 9 p.m. in the OVC Lifetime Learning Centre. For the June 27 meeting only, RSVP to Ext. 6541 by June 20.

Inside:

Universities approve health insurance plan for international students 3

Letters 4

Should female athletes 'carbo load'? 5

Welcome to Alumni Weekend! 8

Included with this issue is an advertising flyer from Graphics Services. On-campus issues also contain an insert from Environmental Health and Safety.

Thought for the week

A little inaccuracy saves a world of explanation.

C.E. Ayres



The land of milk and money

Prof. Al Weersink, Agricultural Economics and Business, and colleagues at Cornell University have found that Ontario dairy farmers are better

off than their U.S. counterparts in terms of income, technology investment and satisfaction. See story on page 5. Photo by Trina Kostler, Office of Research

SPC calls for learner-centred university

"Framing the Choices," a discussion paper released this week by the Strategic-Planning Commission (SPC), calls for U of G to define and restructure itself as learner-centred. To achieve this, the report calls for a "sharper institutional focus on the experience and responsibility of the learner." (The report is included with this issue of *At Guelph*.)

Going beyond a formal mission statement, the report identifies directions any university must follow to become first rate in the next century. Although the report deals primarily in broad brushstrokes, it does pinpoint specific issues — such as administrative structures, the semester system, faculty appointments and workload inequities — that must be resolved.

SPC chair Prof. Bev Kay, Land Resource Science, urges the University community to get involved in discussing and debating the ideas put forward in "Framing the Choices." The debate should take place over coffee, in departmental meetings and in committee meetings, he says.

The SPC needs to know which ideas the community embraces, which ideas are unpopular and any additional issues not mentioned that merit attention. Kay says he or any other member of the commission would be happy to join in these discussions.

"Let the debate begin," says associate SPC chair Prof. Constance Rooke, associate academic vice-president. "The report represents our best thinking so far, but we have no firm commitments to these ideas

until we can consider the response from the University community."

"Framing the Choices" focuses on broad institutional and primarily academic issues. In the months ahead, the SPC will broaden its focus to support areas and issues outside the formal academic enterprise, says Kay. The commission's work builds on previous U of G planning initiatives, including *Toward 2000* and the academic-restructuring report.

The report identifies critical issues that must be explored in detail soon to move in the directions described in the report. The commission is establishing six committees, whose mandates are described in the report. Membership will be named by the end of June, and the committees will begin their work almost immediately.

In September, the SPC expects to release more detailed options and choices that will reflect the data collected by the task forces, response from the community on "Framing the Choices" and the findings of the six new committees.

To launch the discussions, the commission is holding three information sessions and a meeting for alumni in June (see "First Glance"). Comments and suggestions or invitations to attend local discussions are welcome. Send them to Kay in the Department of Land Resource Science, e-mail: bkay@lrs.uoguelph.ca, fax: 824-5730. Or contact Pat Hoare on Level 4 of the University Centre, e-mail: phoare@fas.uoguelph.ca. □

Ottawa creates chair in ecosystem health

by Andrea Mudry Fawcett
University Communications

Ottawa has created a unique new eco-research chair in ecosystem health at U of G with funding from the federal Eco-Research Program.

Guelph-Wellington MP Brenda Chamberlain announced the chair June 10 on campus and named David Rapport, a former senior research scientist with Statistics Canada, as first holder of the chair. Rapport is an adjunct professor of biology in the Department of Population Medicine as well as at the University of Ottawa.

The Eco-Research Program will contribute \$700,000 to the chair for the first three years and a total of \$1.08 million over five years. The last two years are subject to availability of funds.

"Our government looks to Canadian universities to undertake research to meet the environmental challenges of today and tomorrow and to train our future environmental scientists and engineers," said Chamberlain.

In the proposal, other sponsors — the Ontario Ministry of Agriculture, Food and Rural Affairs, Statistics Canada, Environment Canada and Natural Resources Canada — committed a total of \$750,000 over five years.

The chair will provide a comprehensive and holistic approach to ecosystem health management by integrating teaching and research in the health sciences and ecosystem sciences.

"The ailing health of our planet — exemplified by polluted water supplies and the depleted ozone layer — is intertwined with human health," said Rapport, "yet little has been done to understand the connections."

The chair will implement the concepts of ecosystem health in research and teaching across a spectrum of ecosystem scales in southern Ontario, ranging from

See CHAIR on page 2



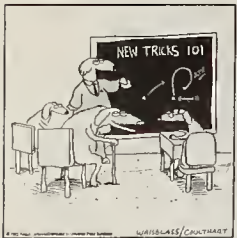
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GRAD NEWS

The final examination of Peter Holz, a D.V.Sc. candidate in the Department of Pathology, is June 29. The seminar is at 9 a.m. in Room 2152 of OVC, followed by the defence in Room 1106. The thesis is "The Reptilian Renal Portal System and Its Effect on Drug Kinetics." His adviser is Prof. Ian Barker.

The final examination of Gayle Ecker, an M.Sc. candidate in the School of Human Biology, is June 27 at 9:10 a.m. in Room 212 of the Powell Building. The thesis is "Fluid and Ion Balance During Prolonged Exercise and Recovery in Endurance Horses." Her adviser is Prof. Mike Lindinger.

The final examination of Elroy Cober, a PhD candidate in the Department of Crop Science, is June 22 at 1 p.m. in Room 307 of the Crop Science Building. The thesis is "Performance of Tall Determinate and Indeterminate Soybean and Response of Near-Isogenic Lines to Photoperiod and Light Quality." His adviser is Prof. Jack Tanner.

The final examination of Gene Shelp, a PhD candidate in the Department of Land Resource Science, is June 21. The seminar is at 9:10 a.m. in Room 124 of the Richards Building, followed by the defence in Room 038. The thesis is "Electrochemical Amelioration of Acid Mine Drainage." The adviser is Prof. Ward Chesworth. □

Chair to identify indicators of ecosystem health



David Rapport outlines his vision for U of G's new eco-research chair in ecosystem health.

Photo by Maurice Oishi, University Communications

Continued from page 1

entire counties to single farms.

In research, the immediate challenge is to advance a conceptual framework to foster diagnostic thinking and capacity, says Rapport. He will bring together appropriate interdisciplinary groups to work on an array of ecosystem problems that will identify useful indicators of ecosystem health.

He will also work on developing methodology for evaluating the health of large-scale multi-stressed ecosystems.

Rapport has championed a comprehensive and transdisciplinary perspective for more than a decade. He is a founding member of the International Society for Ecosystem Health and Medicine and editor-in-chief of its journal. He is also co-chairing a major international symposium, "Ecosystem Health and Medicine: Integrating Science, Policy and Manage-

ment," in Ottawa June 19 to 23 (see story below).

At the University of Ottawa, Rapport was instrumental in establishing the Institute for Research on Environment and the Economy. He pioneered State of Environment Reporting in Canada in 1986 and has extensively researched the effects of stress factors such as pollution and over-harvesting on fresh water, marine and terrestrial ecosystems.

The Eco-Research Program is administered through a secretariat representing the three federal granting councils. It encourages alliances among universities, industry and government and works to ensure that research results are made widely available.

This is the third chair established under the program. One in environmental risk management was awarded to the University of Alberta; a second in environmental health went to McMaster. □

Two ministers to address Ottawa symposium

Federal Environment Minister Sheila Copps and Health Minister Diane Marleau will be among the speakers at the symposium "Ecosystem Health and Medicine: Integrating Science, Policy and Management," being held at the Ottawa Congress Centre June 19 to 23. U of G is a principal organizer of the event.

The symposium will bring together many of the best thinkers to look at how to take the pulse of the planet. They will discuss how to use the systematic methods of diagnosis that have been developed in medicine to detect

serious environmental damage that could menace human health.

Symposium co-chair David Rapport says the goal is to link the expertise in such fields as economics, ethics, law, biological sciences and health sciences so people can better understand how to make decisions that will protect the environment. Symposium recommendations could help nations carry out some of the recommendations agreed to by 103 world leaders at the Earth Summit two years ago. Participants include policy advisers to govern-

ments around the world.

Among the topics to be discussed at the four-day meeting are the early warning signs of risks to ecosystems and human health, reducing the global environmental debt and strategies for healing degraded ecosystems. Other speakers include Kathryn Sullivan, a senior U.S. government scientist and the first American woman to walk in space, and Nobel Laureate Henry Kendall.

For more information, call Continuing Education at Ext. 3956 or 3957. □

Independent Study/OAC ACCESS honors thousandth graduate

Jack Winkler of London is the thousandth student to graduate from Independent Study/OAC ACCESS.



Jack Winkler

At an awards banquet for recipients of the Ontario Diploma in Horticulture and Ontario Diploma in Agriculture programs, he received a certificate of recognition and an alternate-leaved dogwood tree that is especially symbolic for distance learners — it grows well in the shade of other trees, yet follows its own path.

Winkler, who earned a horticulture diploma, was randomly selected from 71 distance learners to be named the thousandth graduate. He also holds a B.Sc. in forestry from the University of Toronto.

He began his horticultural career as a forester and eventually opened a landscaping maintenance business with his wife. He enrolled in the ODH program in 1987, majoring in landscape maintenance. His thesis dealt with tree and shrub disorders in the London area.

This year, Independent Study celebrated 32 years in distance education. A record 64 students received their ODH and seven were awarded an ODA. □

Chair candidates named

Three candidates for the position of chair of the Department of Biomedical Sciences have been named — Profs. Anne Croy and Bill Harris, Biomedical Sciences, and Prof. John Leatherland, Zoology. They will give public presentations this month to discuss their vision for the department.

Leatherland will speak June 23 at 1:10 p.m., Harris is scheduled for June 24 at 1:10 p.m. and Croy

will talk June 29 at 2:10 p.m. All presentations are in Room 1714 of the OVC Lifetime Learning Centre.

The search committee, which is chaired by OVC Dean Alan Meek, invites written comments following the talks. Copies of the candidates' curriculum vitae are available from the dean's office and OVC departments. □

Pfeiffer up for review

Prof. Susan Pfeiffer has almost completed her three-year term as associate dean of graduate studies and has indicated she is willing to be considered for a second three-year term. A committee has been established to review her position and make a recommendation on the reappointment.

Chaired by Prof. Doug Ormrod, dean of graduate studies, the committee consists of Prof. Robert

Brooks, Physics, Prof. Ann Gibbins, chair of the Department of Animal and Poultry Science; Prof. Betty Miles, Family Studies; Prof. Annette Nassuth, Botany; and graduate student Baljit Singh, Biomedical Sciences.

The committee invites written comments and recommendations from members of the University Community by June 30. □

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AT Guelph headlines top stories and coming events can also be accessed on GRIFF.

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Universities approve health insurance for international students

U of G, in collaboration with other Ontario universities, has approved a private health insurance plan that can be offered to its international students and workers, including postdoctoral fellows, and their families.

The plan was designed to be as similar as possible to OHIP, with some limitations to keep the cost reasonable, says Manori Edwards, acting international student adviser. Most pre-existing conditions, including pregnancy, will be covered.

The annual cost is about \$500 (plus tax) for a single person and \$1,600 for a family of three or more. The carrier is Ontario Blue Cross, a non-profit organization, and the broker is William Mercer. The administrators are Welton Beauchamp Nixon.

Many details have yet to be worked out, says Edwards, but the University is aiming to have the administrative framework and policy details by June 30 for current and incoming international students and employees.

Meanwhile, the Council of Ontario Universities (COU) and U of G continue their efforts to lobby the government against curtailing OHIP coverage. On June 3, Edwards, Sam Bonti-Ankomah of

the Graduate Students' Association and Lesley Isaacs of the Central Student Association met with Guelph-Wellington MPP Derek Fletcher to express their concerns. Edwards says Fletcher was willing to lobby the Ministry of Health to reinstate OHIP coverage for international students who were covered under the previous guidelines.

In response to lobbying, the ministry is extending OHIP coverage to women who were pregnant before June 30 and were covered by OHIP at that time. Applicants must provide their OHIP card, immigration document and a letter from their physician indicating that the pregnancy began before June 30.

The ministry has also extended OHIP to international workers who are here for the primary purpose of working temporarily. This will include former students on one-year postgraduate employment authorizations, says Edwards. But the ministry is dealing with these case by case to grant appeals. These workers are urged to appeal, she says. The ministry can be reached at 519-745-8421. □



Homing in

At last week's sod turning for the Village by the Arboretum, Mayor John Counsell, left, shows Orin Reid of Reid's Heritage Homes, centre, and Charles Ferguson, vice-president, administration,

where his new home will be located. Counsell's home is one of more than 40 expected to be completed by Christmas.

Photo by Maurice Olshi, University Communications

Changes to federal loan program still miss the mark, says CSA

by Maurice Olshi
University Communications

The widened access to loan coffers announced by Ottawa last month is still wide of the mark, says Chris Niebler, external affairs co-ordinator for the Central Student Association (CSA).

Changes to the Canada Student Loans Program will raise the dollar limit of student loans in the next academic year while making available grants for students with disabilities, high-need part-time students and women in doctoral program. But it's a case of "the good, the bad and the ugly" because the program focuses too much on student loans and too little on grants, Niebler says.

In Ontario, the federal government is raising its maximum loan limits by 57 per cent or \$165 a week for full-time students. Seemingly good news for students, yet Niebler is critical of the change.

"When you increase student loans, you ultimately increase student indebtedness," he says. "It's helping students in the short term. What we wanted was a system of student grants."

Since the beginning of the year, nearly 5,000 applications from U of G qualified for more than \$16 million in Canada student loans. This funding represents up to 60 per cent of a student's assessed need, says Gerry Godsoe, policy chief for the student assessment branch. Ontario decides how it wants to respond to needs above 60 per cent through the Ontario Student Assistance Program, he says.

Increases in loan caps for part-time students are pending, says Godsoe. These would require part-time students to pay only the

accumulating interest during their period of study, rather than payments against the principal, as was the case in the past.

As for the new grants, they may be available as early as the 1994/95 academic year, says Godsoe. Students with disabilities would be eligible for \$3,000 a year, high-need part-time students could qualify for \$1,200 a year, and women in doctoral programs could receive \$3,000 a year for up to three years, he says.

Although Niebler is hopeful that the improved availability will lead to a national system of grants accessible to all students, he won't fully endorse the program until definitions of terms like "disabilities" and "high-need" are clarified by the government.

He reserves special ire for Ottawa's proposed income loan-repayment scheme. Under it, loan-repayment schedules would be based on a student's income following graduation. Although the policy is still formative, there are too many questions unanswered, he says. Currently, interest does not begin to accrue until after graduation. Some proposals have suggested that interest accrue from the day the loan is issued. Niebler is also concerned that payments may be set too steep for some students, even if they have a job.

He and Stephanie Ounpuu, external vice-president of the Graduate Students' Association, are in accord with the Canadian Federation of Students' concern that current models for income-contingent repayment pose other perils for students. "In every model that's proposed," says Niebler, "there's a need to increase tuition to make this a self-

financing loan plan."

He notes that an Ontario pilot project, independent of the Canada Student Loans Program, for an income-contingent repayment scheme was a "colossal failure" last year. "Approximately 10 per cent of the people who wanted it actually got it," he says.

Peter Landoni, assistant registrar for student finances and awards, agrees the project was a failure, but lays the blame on the eligibility criteria. Students eligible for the pilot project had to have been denied OSAP and had to be in their final year of study. Only five people applied, and none met the criteria. The fault wasn't with the pilot program, he says, but with how individuals were screened to test the system. Landoni says he will reserve judgment on the program until more details are known. □

Write on!

One month from today is the deadline for the *Guelph Alumnus* creative-writing competition. For a chance to win the grand prize of \$500, send your short story, personal essay or poetry to editor Mary Dickieson in University Communications.

All entries must be unpublished. Prose submissions are limited to 4,500 words and should be double-spaced. Poetry entries must not exceed eight pages. To request more information or a flyer to post in your department, call Ext. 8706. □

Three campuses join forces on history PhD

by Maurice Olshi
University Communications

A new three-campus doctoral program in history is a matter of making a good thing better.

When the program's first students arrive in the fall of 1995, they'll be drawing on the combined resources of the well-regarded PhD programs at U of G and the University of Waterloo, says Prof. Jamie Snell, History, first director for the new program. For Wilfrid Laurier University, the third member of the tri-university doctoral program in history, it's a first opportunity to contribute to what will be a broader, more inclusive program, he says.

Currently, Waterloo and Guelph boast solid programs based around expertise in British and Canadian history, says Snell. But in other areas of study, including that of slavery, each campus has only two faculty. Combining forces should generate sufficient numbers to reach a critical academic mass to establish vigorous academic programs, he says. "What we've been able to do is move beyond the North American/Eurocentric viewpoint."

Although the program will be the third largest in the province behind those at the University of Toronto and York, "we're not expecting it to be a great big program," says Snell. "What we wanted to do was improve the quality, not build

an empire."

At any given time, U of G has 15 to 20 PhD history students. The admission target for the new program will be two students a year for each campus.

The program has been six years in the making, starting with an annual scholarly conference and the use of faculty members from other universities to serve on graduate advisory committees, says Prof. Doug Ormrod, dean of graduate studies. "It's been a long courtship, one that's been very carefully planned," he says.

In the coming year, the adopted framework will be fleshed out, with formalized plans for resource sharing. Ormrod says Guelph's joint programs with Waterloo in chemistry, physics and psychology and with McMaster in philosophy and political studies will continue to serve as models for the unique three-campus approach. "We have a lot of experience, and the history people have drawn on that."

All courses will be jointly offered by the three campuses. Snell says he hopes the interactive audio-visual classroom link between Waterloo and Guelph will play an important role in this.

The program was approved by the Ontario Council of Graduate Studies earlier this year. □

LETTERS

Give credit where credit is due to U of G coaches

I've been a keen follower of international track and field, especially middle- and long-distance running, for many years. I have also been interested in and have followed the achievements of track-and-field and cross-country athletes at U of G.

I was therefore puzzled by the May 25 *At Guelph* article on retired human biology professor John Powell and his book *Origins and Aspects of Olympism*. In that article, Powell made several claims about his involvement with international and local track and field.

If his statements have been correctly quoted, especially about his coaching 19 medal winners at the summer Olympic Games, then Powell should be recognized as one of the true legends of track-and-field coaching — to be included among the likes of New Zealander Arthur Lydiard (coach of some of the world's great milers) and Americans Bill Bowerman (Oregon's great innovator and coach of middle- and long-distance running) and Bob Kersee, who coached four U.S.

Olympic gold medalists.

I can't really say if Powell was one of the world's best track-and-field coaches before he came to Guelph, although there is little evidence in the literature to indicate that he was, but his statement that he served as track-and-field coach at U of G is certainly incorrect. It's true that he made several noteworthy contributions to University athletics, especially participatory athletics through the Cardiovascular Club, but as far as I'm aware, he was never the track-and-field coach.

He may have advised various athletes over the years on aspects of track and field, but he was never officially the coach of either the track-and-field or the cross-country teams, although a man with his background and credentials certainly would have been a great asset as a coach.

Over the years, various individuals coached track and field, as well as cross-country. Included in this group are the late Alex "Sass" Peepre, Prof. Victor Matthews (the longest-serving coach, from 1965 to 1976 and 1979 to 1986),

Londo Iacovelli, Albert Tschirhart, Doonee Riley, Peter Manning, Alan Keele, Chris Cameron and, most recently, Rick Schroeder. Many worked extremely hard for little compensation, sacrificing weekends and evenings, in almost total anonymity.

The truly amazing thing, however, is that even with little support and recognition, they managed to produce some of the greatest athletes to come out of U of G (several of whom did go on to participate at the Olympic Games) and teams that became provincial and national champions.

It should be noted that the first team to win a CIAU championship representing Guelph was not a football, basketball or hockey team, but was the men's cross-country team in 1969 coached by Matthews. He also coached the women's cross-country team to a second place in the CIAU championship in 1981.

I have no interest in belittling Powell's many achievements and accomplishments over the years

as founder and director of the School of Human Biology, but I do want to make sure the record is correct. Those who served U of G as track-and-field and cross-country coaches over the past 30 years have received little recognition for their time and effort. At the very least, we should set the record straight and give credit where credit is due.

Prof. Usher Posluszny
Department of Botany

Not identified in photograph

Thanks for the June 1 photograph showing me laying flowers in the memory of animals. I am a vegetarian and strongly believe in the equal right to life for even the smallest creature in this world. I was disappointed, however, to see that I was simply described as "a member of the University community" and not identified by name.

Shri Sharma
Department of Food Science

Make the LINK with a student from abroad

This fall, 85 new international students from about 70 countries will arrive here to begin studies, many visiting Canada for the first time. To help make their first weeks here easier, U of G runs a volunteer program that matches new students with members of the University.

The volunteers help the new international students get to know the University and the city. This includes helping them find accommodation and banking facilities and taking them to grocery stores, says LINK co-ordinator Alexandra Vervaeke.

Now in its fourth year, the program is looking for volunteers who can be available to an international student for 10 to 20 hours over the semester. A training session will be held in August. Anyone interested in volunteering should call Vervaeke at Ext. 6918 by July 1 or drop by International Education Services on Level 4 of the University Centre. □

Report not a statement of official University policy

In response to recent comments by Profs. Don Stewart and Michael Brookfield on the values task force report (*At Guelph* May 25 and June 8), I wish to clarify the relation of the task force report to the work of the Strategic-Planning Commission (SPC) and comment on the choices we face in defining the tenor of future dialogue.

The commission created 11 task forces to collect information and generate ideas. Their membership exceeded 100 students, staff and faculty. The reports from the task forces and submissions from the University community are being

synthesized by the SPC. This material is then being integrated with the collective experience and wisdom of the 36 members of the commission.

A definition of the mission and strategic directions will evolve as further dialogue with the community and the work of the commission proceed.

The SPC asked the values task force to assess the values and climate/culture of the University, taking into account what appeared to be current values and what the community thought should be valued. The commission also asked

the task force, as it did all the task forces, to focus on implications for institutional change.

The task force was asked to complete its study in 10 weeks, and its final report was presented on schedule. The report is not, nor was it ever intended to be, a statement of official policy of the University. It was presented to the SPC as a working document and identified broad issues that the task force believed were important.

The commission has considered these issues, as it has issues and ideas from other task forces and submissions from the community.

The purpose of publicizing reports and holding open meetings

to discuss the reports is to keep the community informed of the status of the strategic-planning process and create opportunities for individuals or groups to provide input to the process. From the outset, the commission's intention has been to pursue a process that is open and consultative.

In acknowledging Stewart's commentary, I will not try to provide a rebuttal, but I will note, in the spirit of a consultative process, that his comments were noted by the commission and that the degree to which his concerns are addressed in the document "Framing the Choices" may be worthy of further dialogue.

The issues we should be focusing on over the next few months should be those that will have the greatest impact on the future of U of G. The fruitfulness of this dialogue will depend on our ability to use the best of our intellectual abilities, our willingness to listen and to try to understand different perspectives, and perhaps most important, our ability to be positive and constructive.

The challenge will be to engage in a dialogue that, quoting from the values task force report, is "open and truly collegial, as well as respectful, sensitive and empathetic."

Prof. Bev Kay
Chair, SPC

JOBS

As of June 13, the following opportunities were available:

Sign Painter, Paint Shop, Physical Resources, temporary full time for five months. Salary range: \$17.95 probation rate, \$18.15 job rate.

The following were available to on-campus employees only:

Technician, temporary full-time leave replacement Sept. 6 to April 21/95. Salary range: \$10.64 minimum, \$13.30 job rate, \$15.96 maximum.

Secretary, Compensation and Benefits, Human Resources. Salary range: \$12.60 minimum, \$15.75 job rate, \$18.90 maximum. Nursing Supervisor, Veterinary Teaching Hospital. Salary range: \$29,099 to \$34,192.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, visit Human Resources on Level 5 of the University Centre or call 836-4900. □

City of Guelph
GORDON STREET TRANSPORTATION CORRIDOR
ENVIRONMENTAL STUDY REPORT

Between Wellington Street and Stone Road

NOTICE OF COMPLETION

The study undertaken to review the capacity and safety of the Gordon Street corridor between Wellington Street and Stone Road has been completed. The recommended alternative for the reconstruction consists of one lane of traffic in both directions south of the Speed River, one bicycle lane in each direction and sidewalks on both sides of the street along the entire length of the corridor. Additional left-turn lanes will be provided on Gordon Street at Albert Street, James Street, Forbes Avenue, Dormie Lane and University Avenue and at the University of Guelph's McGillivray Street and P-2 parking lot entrance. At the intersection of College Avenue and Stone Road additional right-turn lanes and additional through lanes will be provided, along with additional right-turn lanes on College Avenue and Stone Road approaching Gordon Street. At the University of Guelph's South Ring Road additional left-turn lanes and through lanes will be provided on Gordon Street.

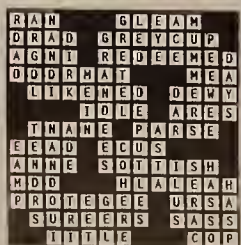
The recommended alternative is a Schedule A project under the Class Environmental Assessment (Class EA) for Municipal Road Projects. The project is unconditionally approved in the City of Guelph, cannot be "bumped" up to a Schedule B or C project or an individual environmental assessment and may proceed to implementation. The Study was carried out in accordance with the Class EA Process in order to evaluate several alternatives, some of which were classified as Schedule C projects.

The final report can be viewed at the City Engineer's Department, 2 Wyndham Street North, 3rd Floor, Guelph, Ontario.

The recommended alternative for the reconstruction of Gordon Street will be constructed in phases commencing this year.

For further information, please contact:

D.M. Kudo, P.Eng.
Project Engineer
City of Guelph
2 Wyndham St. N., 3rd Floor
Guelph, Ontario N1H 4E3
Telephone: (519) 837-5604



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THE Strategic-Planning Commission

Framing the choices: a draft strategic vision

"Framing the Choices" is a draft discussion paper that represents a progress report from the Strategic-Planning Commission on a strategic vision for the University. It builds not only on earlier planning documents, including *Toward 2000*, but also on the input of the 11 task forces that analysed and reported on the external environment and U of G's internal strengths and weaknesses.

The commission plans to release another strategic vision in late September that reflects the University community's response to

this "Framing the Choices" document.

This first major discussion paper from the Strategic-Planning Commission deals with broad institutional issues and presents options for consideration. Later, the commission will make more specific recommendations. The commission, working with several new committees and existing committees, continues to gather data, analyse and consider options for the future of the University.

Preface

The first formal self-assessment undertaken by the University of Guelph resulted in the aims and objectives document of 1972. A revised set of aims and objectives appeared in *Toward 2000* in 1985, at which time a review was called for by 1995.

In November 1993, President Mordechai Rozanski created the Strategic-Planning Commission (SPC). He asked the commission to examine the mission and future direction of the University and to do so in the context of the budget reality (a dramatic reduction in the level of government funding).

The president noted in his charge to the commission that "the challenges we face cannot be met by tinkering and should not be met by across-the-board budget cuts, but must involve an active and comprehensive effort which considers the external environment, builds on strengths, reaffirms our commitment to academic quality, and respects the values and culture of the University of Guelph."

He asked that the strategic-planning process involve wide consultation and that it culminate in specific recommendations in a final report to be presented by Nov. 30, 1994.

The SPC embarked on a two-stage process

to meet the charge from the president. The first would involve the development of a bold, innovative strategic vision to provide future direction for U of G; the second would involve a more detailed and complete evaluation of the choices the University will face in implementing the vision.

To develop the background information and help generate the ideas that would be crucial to drafting the strategic vision, 11 task forces were created, involving more than 100 members of the University community. The task forces, in turn, sought input from many other people.

This document, which focuses on academic issues, represents the first draft of the strategic vision released to the community by the SPC. It is intended to stimulate dialogue, which we hope will involve many members of the community and contribute new insights as the strategic vision evolves over the next few months.

The elegant crafting of a final strategic vision is only one part of the current endeavor. Equally important is the dialogue itself, the give and take that comes from thinking seriously about what we are doing, in the company of others engaged in the same enterprise.

Mission statement

The University of Guelph is a research-intensive, learner-centred university. It offers a wide range of high-quality undergraduate and graduate programs in the arts and humanities, social sciences and natural sciences. Building on these core disciplines, it also has a strong commitment to interdisciplinary programs, to a selected range of professional and applied programs, and to agriculture and veterinary medicine as areas of special responsibility.

U of G is dedicated to the discovery, sharing and application of knowledge. In seeking to uncover and respect the diversity and profound interconnectedness of life, the University is both practical and idealistic. Its core value is the pursuit of truth. Its aim is to make a real difference in Canadian society and in the world, to enlarge the scope and enhance the quality of human life, and to bring imagination, skill and a sense of responsibility to bear on the task of caring for our natural environment. Both in its research and in its teaching programs, Guelph is committed to a global perspective.

The University is animated by a spirit of free and open inquiry, collaboration and mutual respect. It attracts students, faculty and staff of the highest quality and is committed to maintaining for all members of its

community an environment that is hospitable, safe, supportive, equitable, pleasurable and intellectually exciting.

U of G is determined to put the learner at the centre of all it does, recognizing that a great university is a community of scholars, that research and teaching are intimately linked and that learning is a lifelong commitment. The University eagerly promotes collaboration among undergraduates, graduate students, faculty, staff and alumni, as well as with our neighbors, other educational institutions, government, business and the international community.

Guelph is committed to the highest standards of innovative pedagogy, to the education and well-being of the whole person, to meeting the needs of all learners in a purposefully diverse community, to the pursuit of its learning objectives and measurable outcomes, to the fostering of creativity, to an ethos of active learning, and to the integration of skills and critical inquiry in a carefully orchestrated curriculum.

A central concern is the need to educate students for life and work in a rapidly changing world.

U of G welcomes public scrutiny of the fulfilment of its mission, especially by the people of Ontario, to whom it is accountable.

Strategic directions

Introduction

The mission statement above tries to be consistent with the strengths and values of the institution and with major trends or forces identified in the environment external to the University. In other words, it arises out of the "matching process" in which the commission has been engaged. The mission statement does not address in any explicit way the budget realities with which the SPC has been much concerned, but we do try to confront budget matters later in the report.

The commission has considered a wide range of issues arising from the reports of the task forces and related to the vision of the University that is embedded in the mission statement. It did so in the clear recognition that much thinking remains to be done, both in the commission and in the community as a whole. The suggestions offered below should therefore be regarded as both incomplete and preliminary. Often, the report will indicate where choices need to be made rather than the particular choice that seems to us desirable.

In its study of the task force reports, the SPC tried to distinguish between "incremental" operational issues and major "strategic" issues, where intelligent choices must be made soon. U of G will be one sort of institution or another, according to how it responds to the opportunities and constraints at hand. This report therefore focuses on major strategic directions for the University.

Members of the community who have toiled in the task forces or in the preparation of other detailed submissions to the commission should not suppose that their efforts have been wasted simply because this report does not address their issues and ideas. (More will follow!)

Statements on balance

The student body

Partly in response to the need for accessibility, and recognizing that changes may have to be contemplated following the government's review of the funding formula, the SPC proposes that U of G hold to its present course with respect to enrolment, with the exception of a substantial increase in the number of learners in distance and continuing education courses.

Our goal would be about 10,000 on-campus

undergraduates and 2,000 graduate students. This ratio of graduate to undergraduate students is reaffirmed by the commission as desirable and fully appropriate for this institution. (Note that growth in the areas of distance and continuing education can generate income for the University as well as support for graduate students. The effect of such growth should therefore be to diminish rather than exacerbate the need for reductions elsewhere.)

Homogeneity and diversity

The SPC recognizes and embraces our distinct comparative advantage as a highly residential institution. In recognizing as well the high proportion and relative homogeneity of students coming to Guelph directly out of secondary school, the commission notes that our student body will almost certainly — and should certainly — become more diverse over time.

Clearly, we must prepare ourselves to meet the needs of more part-time, distant and mature learners.

Moreover, and again in the interests of equity and of enriching the life of this institution, we should strive for greater ethnic and cultural diversity among faculty and staff as well as students. We are concerned, too, that the number of international students at Guelph has declined and urge that steps be taken to assess and achieve an appropriate balance.

The commission notes that in our PhD programs and especially in faculty and administration, we still have too few women. The University must continue its equity efforts in this regard.

Teaching, research and service

In arguing for a learner-centred university, the SPC simultaneously affirms the deep and essential interrelationship of teaching and research. It does not accept the proposition that the University's research mission must be weakened if its teaching mission is to be strengthened. But the commission does insist that U of G will have to undergo a significant transformation if it is to become truly learner-centred, and that a great deal of time and energy will be required to bring this about.

Because time is a precious and finite commodity, the time we spend on teaching, research and service must somehow be better managed. This will involve efforts to ensure that workload is equitable and appropriately focused.

The "service" function of faculty involves a great array of activities, some of which overlap with teaching or research and many of which arise from academic expertise. Workloads must be structured to realize faculty potential for important service, with regard to public policy, for example.

Some service activities of this kind are

entrepreneurial, and these may offer important financial rewards to the University as well as substantial benefits to the public.

An issue of balance that arises in this context is the need to ensure that the level and nature of such activities are consistent with our mission as a university.

Vital service work, including service to the profession and the University, must be accommodated in workload.

Cuts and growth

The number of faculty and staff employed by U of G will have to be reduced substantially to meet budget reductions. The SPC notes, however, that other adjustments to the total salary budget can be used to minimize the reduction in the employee base, if that is the desire of the community.

The commission also urges on the University community its responsibility to increase revenue through appropriately integrated entrepreneurial activity as well as development.

While doing our utmost to convince both government and the public that universities need more money and that the public good is served by adequate public funding of our universities, we must also work hard to diversify funding sources.

Clearly, there will have to be substantial cuts and increased efficiencies at U of G, but if we are to thrive, there will also have to be substantial growth and support for new initiatives. To achieve this, to preserve quality and to avoid cuts that are damaging to the lifeblood of the institution, we must seek out new sources of funding.

Universities in the 21st century

It is clear to the commission that there are certain basic directions in which any university must move if it hopes to be first-rate in the next century. These interrelated, critically important and essentially strategic directions, which the commission urges on U of G, are as follows:

■ Collaboration

This is a strategy that must become much more prominent in our teaching, research, administration and support functions. It is a strategy to be enacted on campus and off, locally and internationally. It means (among many other things) collaborating much more extensively across the old disciplinary boundaries. It also means working with other educational institutions, government and the business community. Only through partnerships and the sharing of resources and expertise will we prevail. But this requires decisive, visionary leadership.

■ Distinctiveness

A rapidly expanding knowledge base means that no university can hope to offer truly comprehensive programs of high quality in all areas. If collectively we aim at the pursuit of truth and the betterment of society, we will serve both ends more effectively by well-reasoned attempts to specialize. It should be recognized as well that distinctiveness takes many forms — not all of them academic — and that it is desirable — from the point of view of both comparative advantage and service to the public — for universities to be different from one another. At the same time, it is critical that a first-rate university maintain strength in core academic areas and services.

■ Technology

In multimedia, computing and networking technology, we have seen advances that are profoundly revolutionary. Universities that join this revolution wisely will find themselves transformed in terms of how learning and inquiry are conducted, how services are provided to the community and how collaboration on a global basis is facilitated. Universities that do not will be lost.

■ Internationalization

In a world characterized by the increasingly steady flow of people, ideas, information, capital and products across national boundaries, university graduates must be prepared to deal with other cultures and global issues. Major world issues such as population growth, conflict resolution, resource depletion and the deterioration of the natural environment will require the best interdisciplinary efforts our universities can muster — and these simply cannot be approached in a parochial manner. Both teaching and research must be "internationalized" in the university of the 21st century.

■ Interdisciplinarity

The need to promote interdisciplinary teaching and research is made clear by the increasing complexity and interconnectedness of the problems that both university faculty and graduates in the workplace will be called on to address. The "scholarship of integration," including links within and among the sciences, the social sciences and the humanities, will be critical for life in the 21st century.

■ Accountability

The cry for increased accountability is heard all around us, and it cannot be ignored. A first-rate university should welcome accountability to its own extended community and the public. At the same time, any first-rate university must be guided by its own wish to excel on its own terms. It will want to know for the purpose of continual self-improvement how well it is achieving its stated aims.

■ Intellectual leadership.

A first-rate university serves society best by assuming a position of intellectual leadership. It must not fall into a purely responsive mode, obeying each behest directed at it by the voices of society.

The learner-centred university

Note: Much of what follows in this section of the report focuses on our undergraduate programs, where it seems to the commission that a great deal of work needs to be done. This fact should not be taken as an indication that graduate students are seen as less important to the proposed model of a learner-centred university.

Probably the strongest single message emerging from the deliberations of the Strategic-Planning Commission is the need for the University to understand and define and restructure itself as learner-centred. The term "learner-centred" will mean a good many things or nothing at all, depending on how seriously the community pursues this strategic direction.

The mission statement devotes considerable space to this issue, and the fact that "learner-centred" comes after "research-intensive" in the first sentence of the mission statement is an attempt to achieve balance in the whole rather than a statement of priorities. Indeed, the mission statement should make clear that these are not opposed ideas.

We are all learners. With respect to students, however, we intend by the term "learner-centred" an approach to teaching — both in and out of the classroom — that is focused on what is actually happening for the learner. Teaching is seen to be less an imparting of prescribed content than a fostering of self-directed inquiry. Under this model, the student also has an increased measure of responsibility for his or her learning.

The commission acknowledges the excellent services provided to students on this campus in support of their learning. And it recognizes that a good deal of fine teaching goes on here, both inside the classroom and out. It also recognizes that some powerful learning takes place.

But it is clear that the community as a whole thinks we should be doing a much

better job of stimulating learning throughout the University, and that this will require a much sharper institutional focus on the experience and responsibility of the learner. Like most universities, we have exhibited (to a greater or lesser extent) the following weaknesses:

- We have relied too much on the lecture.
- We have not done nearly enough to promote active self-directed learning.
- We have not engaged our students sufficiently in research or made clear enough the importance of research.
- We have done too little with respect to peer-group learning and teamwork.
- We have not arranged matters so that students have enough time to reflect on what they learn.
- We have not seized the opportunities for greater efficiency and improved learning that are afforded by new instructional technologies.
- We have paid too little attention to the skills and the learning objectives our curriculum should be designed to foster, choosing (in part by default) to be excessively content-driven.
- We have focused too much on the autonomy of courses (usually designed and taught by a single faculty member) and too little on the necessary agreed-on relationship between courses.
- We have not given enough care to the multiple trajectories that students may take through the curriculum as a whole, ensuring that students' learning experiences are appropriately varied and co-ordinated.
- We have not devoted enough co-ordinated attention to needs in the areas of academic advising and counselling.

The SPC believes that in each of these areas, we must make substantial progress over the next few years. Many particular recommendations embedded here and elsewhere in the report also address this strategic direction. For example, we recommend the following:

- That the University consider abolishing the semester system. The intention here is not only that we abandon the spring semester, but also that we move to a single undergraduate entry point in the fall. This would permit considerable economies with respect to the current offering of certain courses in multiple semesters. It opens the way to extending the length of the semesters slightly and to the increased use of full-year courses, both of which may be judged highly desirable from a learner-centred perspective. It also makes reform of the curriculum much easier. (Note that growth in distance education makes up for some of the loss of immediate access that results from this change.)
- That U of G consider a move to a credit system, which would make the curriculum much more flexible. This change would promote the use of learning modules, branching courses, instructional technology, etc. It would allow greater concentration (double-credit options, for example) and more links within the curriculum as a whole.
- That we move away from the automatic equation of five courses with a full course load. Five content-packed courses are often too many. Spread too thinly, students typically become too passive and unreflective. They switch into emergency gear, focusing too much on grades and too little on the learning that will enrich their lives. The credit system would expedite this reform, the intent of which is to increase the learning that actually takes place in a given semester.
- That the program committees be carefully rethought and perhaps restructured and that they — or another body or they working with other bodies — be motivated and empowered to achieve the streamlining, integration and reform of the University curriculum.
- That proposals be developed for a common first year (differing versions for students in the sciences and others) and for the extension of Akademia beyond the first year.
- That Teaching Support Services (anoma-

lous in a learner-centred university!) be renamed the Learning and Teaching Centre, and that an analysis of the functions of TSS and the Learning Resource Centre be undertaken with a view to collaboration and clearly defined mandates.

- That the learning objectives be re-examined, in concert with a consideration of measurable outcomes, with a view to at least the following:

- any modifications or additions that may be desired in the learning objectives themselves;
- ensuring that these objectives are respected and actively pursued within programs, rather than trivialized (as may sometimes be the case) through attempts to attach as many as possible of the objectives to an individual course;
- clarifying the relationship between the learning objectives and other learning outcomes. (What should be measured and how? Can the post-graduation survey be revised to assess our progress towards achievement of the learning objectives?);
- within courses and programs and across the University as a whole, encouraging the development of more outcome measures (such as entrance-exit testing); and
- the possible use of designated writing courses in support of the University's literacy objective. Each department or program designates certain of its courses as having a significant component of writing, which is assessed as writing. Students are required to take and pass a specified number of such designated writing courses. (Something similar could be done with respect to numeracy, etc.)
- That the rule of experiential learning and the full range of opportunities for experiential learning that does or should exist — from co-op programs to hands-on work in course laboratories — be closely scrutinized by academic planners.
- That extracurricular learning opportunities be designed to support U of G's learning objectives and that the relationship of curricular and extracurricular learning be more clearly articulated and fostered, partly through closer ties between faculty and professional staff.
- That we explore the possibility of course challenges and prior credit. (Students for whom a particular course would be largely redundant should not be taking it.)
- That Guelph strengthen its commitment to the evaluation of teaching and the reward of excellence in teaching. (The University must solicit detailed feedback from students and, in evaluating teaching, must assess how well learning has been aided.)
- That the University substantially increase its commitment to training graduate teaching assistants (GTAs).
- That U of G strengthen intellectual ties between undergraduate and graduate students by facilitating joint classroom and research ventures.
- That graduate programs be designed and reviewed with a clear sense of the varying needs and aspirations of graduate students themselves.

Growth, rationalization, collaboration

Unifying themes and restructuring

The SPC is not in a position to recommend the merger or discontinuation of any academic programs, units or courses, nor has it proposed as yet any model for restructuring. Still, it is clear that some restructuring

ing must take place if we are to address the proliferation of specializations and courses (as is clearly required by our financial situation) and also maximize the academic strengths of the institution.

Building on the work of the Task Force on Academic Strengths and Weaknesses, the commission has begun to identify a number of areas (here called "unifying themes") in which U of G has actual or potential strength.

The commission has visualized these unifying themes as emerging out of a strong foundation in the arts and humanities, social sciences and natural sciences, as well as from the degree programs that provide for our special responsibilities in agriculture and veterinary medicine.

These unifying themes cross departmental and often college boundaries, but they can also serve to focus departmental effort. They help define where the University excels — or can excel — in intellectual leadership. And they have important implications for our teaching programs, research ventures and restructuring.

This is not to say that such unifying themes are any more important to our sense of ourselves or more deserving of attention than traditional core disciplines such as history or chemistry.

In the existing structures of the University, some of these unifying themes are not as clearly visible as they might be. Certainly they are not as visible as departments. In a few cases, they might become departments, but other ways of organizing and articulating our intellectual strengths are also likely to emerge from the present exercise.

Considerable progress has already been made within the University in articulating some of these unifying themes — plant biology, for example. More is in the works with respect to rural studies, as the University School of Rural Planning and Development, the Department of Rural Extension Studies and the School of Landscape Architecture consider some kind of amalgamation. Something needs to be done with respect to animal biology. Links between the departments of Food Science and Nutritional Sciences or Nutritional Sciences and the School of Human Biology seem other obvious possibilities.

In some cases, we have a teaching program such as Canadian studies or women's studies that could be strengthened by closer research ties. In other areas such as native studies and cultural studies, unifying themes are just beginning to emerge and are so far entirely unstructured. Much remains to be done in terms of identifying and refining these unifying themes and determining how best to accommodate them.

The SPC notes that structural reorganization could be based on research or teaching commonalities. One possible model is for departments to be composed of researchers with compatible interests whose teaching activities are seconded to one or more degree programs. This would enable the movement of teaching expertise into areas where it is most urgently required.

This could lead to the realignment of departments and colleges, with new and different roles for chairs and deans and program committee chairs, particularly in relation to the evolution and management of academic programs.

Another model sees most departments as based in a discipline and others as interdisciplinary. Most — but not all — teaching responsibilities are vested in the department. Research commonalities are found in a department and/or in research units or councils.

Whatever restructuring occurs must promote interdisciplinary research and teaching, as well as the reform of the curriculum discussed earlier. And some restructuring appears inevitable, because existing structures do not foster collaboration or minimize duplication to the degree obviously required.

The commission anticipates that recommendations for restructuring will arise out of discussions in the community that will occur over the next few months.

Rationalization and collaboration

The SPC believes that departments may be strengthened by focusing their efforts in a few content areas, rather than distributing courses evenly among all areas. The commission also believes that it is not necessary for every department to have an honors program or for every department to have a graduate program. It might, for example, make good sense for a particular department to focus its teaching energies on strong first- and second-year courses and a strong, sharply focused graduate program.

Often, the appropriate array of teaching programs will be affected by the strengths of neighboring institutions. Through collaboration with neighboring universities, we can sometimes achieve the critical mass necessary to mount a first-rate graduate program or enrich undergraduate offerings or forge research partnerships. Collaboration in the University itself can also create opportunities for a department to participate in an honors or graduate program.

Flexibility and responsiveness

Partly because they are "incubators of unlabelled eggs," universities must have flexible plans. We must be able to respond to new opportunities and pressures as they arise, which means we must be able to reallocate resources.

We cannot predict with any lasting accuracy which domains of human knowledge will generate new requirements for curricular development or new opportunities for research breakthroughs. We do know that we will have to keep on changing.

The tension created as new and often unexpected opportunities compete with long-established expectations and priorities has been deeply worrying to the commission, especially, of course, in the context of severely constrained resources.

The issue of flexibility relates to both permanent and temporary employees. The size of the permanent faculty complement will need to be changeable and in either direction, although overall it will have to be significantly reduced. The early retirement plan now being offered to many of our employees, together with normal attrition, will make the strategic redeployment of our human resources much easier.

As people leave, it will be possible to assess carefully whether the salary dollars freed up should be retained in the unit, devoted to budget relief or allocated elsewhere. Strategic reconfigurations in units may also occur, if it is determined that the dollars should remain. But flexibility gained in this way will be insufficient; we must also increase the proportion of faculty hired on a temporary basis.

People change, as do the "hot spots" of knowledge, and U of G must be prepared to profit from the changing strengths of its faculty. The components of workload should be flexible, varying as may be appropriate from time to time and from one faculty member to the next. The goal is to ensure that all faculty are concentrating their best efforts in the optimum distribution among teaching, research and service activities, and that these differential workload assignments are equitable.

The financial constraints we will face at least over the next decade make it absolutely vital that performance be evaluated with care and that work assignments be more closely tied to performance. A similar case can be made with respect to staff.

Graduate studies and research

In recent years, probably our major strategic thrust has been the expansion of graduate studies at Guelph. The strategic directions proposed here require that we hold to our goal of graduate enrolment at the level of 20 per cent of undergraduate

enrolment. We regard this as appropriate to a research-intensive, learner-centred university.

To achieve this proportion — and support our research effort — we must increase and diversify funding for graduate students. We must also improve research infrastructure. The SPC notes the obvious — that graduate students and research projects need each other and that intensive, well-funded research endeavors are often critical to the success of our graduate students.

Graduate students must also be taught by highly skilled and imaginative researchers. Quality in research and quality in our graduate programs are fundamentally dependent on one another. The commission therefore recommends that careful consideration be given to combining Graduate Studies and the Office of Research.

The commission recognizes that support for research may become harder to find and that finding it may require more time on the part of faculty and staff. Nevertheless, we remain committed to a very substantial level of quality research at U of G.

Although it is reasonable to assume that the overall quantity of research performed at Guelph will decline as our numbers decline, even this is not necessarily the case. (A higher proportion of our faculty might be highly productive researchers in the future.) But quantity is not the most important issue because it's not at all clear that either the academy or the world at large profits from an almost exponentially increasing mass of published research. The more important issue is quality.

While recognizing that the pressures of overwork (which result, in part, from underfunding) can have a deleterious effect on the quality of research, the SPC believes that we at Guelph must not allow the quality of our overall research effort to suffer.

Some strategic decisions will obviously have to be made with respect to the support of research within the University. Still, the commission believes firmly that we must be able to respond quickly to changes of direction and that we must support excellence wherever it is found, whether in individuals or groups.

Distance and continuing education

As indicated earlier, it is the commission's view that significant growth is appropriate in these areas. Such growth will occur not at the expense of other teaching programs, but as an important means of support, both financially and pedagogically.

Distance courses must support degree programs — including graduate programs — to a greater extent than is now the case and should also be available through an "open learning" category. It will obviously be important to consult and collaborate with other institutions and constituencies in developing such offerings and to focus our efforts with great care.

U of G's work in the areas of distance and continuing education should be characterized by the seven "indispensables" referred to above: collaboration, distinctiveness, technology, internationalization, interdisciplinarity, accountability and intellectual leadership. A closer relationship between distance and continuing education is desirable.

Semesters abroad and exchange possibilities

The SPC believes that more needs to be done in these areas. We should be working intently towards greater organizational clarity, a more rational and carefully designed array of programs, a clear funding mechanism and proper financial aid for study abroad. Many more of our students should be embarking on this international experience. In addition, we should be faci-

tating study at other Canadian universities.

As indicated earlier in the report, the commission is also concerned about the declining number of international students at U of G, partly because their very presence on this campus is an important means of fostering a global perspective in Guelph's Canadian students.

Collaboration with alumni

In the spirit of community and in the interest of deploying to good effect all available human resources, the commission strongly believes that we must enlist the aid of our alumni. We have not done nearly enough to suggest to alumni the myriad ways they could help to sustain and strengthen the University.

Alumni could, for example, be invaluable in terms of extracurricular and experiential learning (including co-op) or in the recruitment of students, faculty and staff.

Recently, alumni expertise has been used to aid in the commercial development of technologies arising from campus research, but much remains to be done. The whole community will clearly be enriched by closer working ties with our alumni.

Human resources

One of the SPC's concerns has been with the need to improve our human resources management. There appears to be overwhelming support in the University community for careful feedback on performance and a belief that job performance should be the primary criterion for job security.

To the extent that it lies within the University's power to connect job performance and job security in this way, it must do so. The institution must show that it can properly assess and fairly value the contributions of all its employees. It must also substantially improve training efforts. We must improve systems and achieve full equity in all job classifications.

These are operational matters, but they are also strategic and must be accorded a high priority in the University. The mission statement makes clear our ethical commitment to this goal, and our current duress makes clear its practical necessity.

Major savings

■ Downsize.

Clearly, we will have to reduce the number of faculty and staff employed at U of G. We anticipate that this can be accomplished largely through the early retirement program and normal attrition. (However such downsizing occurs, it must be done with fairness, openness, respect and generosity.)

Many of the other initiatives proposed in this report are, in part, ways of coping with a substantially reduced faculty and staff complement.

■ Abolish the semester system.

This move would allow us to operate with a smaller employee base. It would also make more feasible an increased number of staff on reduced-time appointments.

The removal of the spring semester must be compensated for (and concern with respect to first-year courses and co-op students diminished) by increased activity in summer school and in distance and continuing education.

Clearly, we would wish to profit from the use of campus facilities during the summer months. One interesting suggestion that illustrates what should be possible is the creation of an "International Village" (a kind of summer school for international students).

In the past, U of G has regarded the spring semester as a unique feature required to attract students. As our reputation has grown, that need has passed. The commis-

sion believes that the proposal to abolish the semester system warrants serious study over the next few months.

■ **Reduce course offerings by 25 per cent and eliminate many specializations.**

The need to adopt this course of action is clear to the commission; the means necessary to achieve it are less so. Some faculty (in some areas of the curriculum) have already cut back, but many others are resistant to pressure of this kind.

Duplication is part of the problem here. The issue of course proliferation is closely related to the reform of the program committee function called for earlier in the report.

■ **Move some tenured faculty to nine- or 10-month appointments or assign additional responsibilities.**

Some members of the community have called the efficacy of the tenure system into question. The SPC interprets this as a comment not on the importance of protecting academic freedom, but on the clear need for the University to deal more effectively with poor performance and workload inequities.

Faculty (and staff) should receive careful feedback on performance, and where improvement is clearly needed, it must be insisted on and fostered. Obviously, there is no room at the University for the incompetent. As has occurred quietly but regularly in the past, Guelph must arrange severance for faculty judged incompetent by their peers.

But it is also true that we cannot afford to have some members of faculty who are paid for 12 months a year when they habitually work less; the research component of salary must be clearly defensible. If faculty are not engaged in productive research in the research and development semester, they should move to a reduced-time appointment or take on additional responsibilities in the R&D semester (such as writing distance education courses).

It is of course understood that scholarship can exist without publication and that faculty will require time for this. Decisions must therefore be made in the context of total annual workload.

The move to a reduced-time appointment could be voluntary or it could occur at the request of the promotion and tenure committee, the chair or dean. Quite apart from budget implications, this initiative is important in achieving equity with staff and sessional faculty.

■ **Work towards a larger fraction of faculty in sessional or temporary rather than permanent (tenured) positions.**

It was once the case that the fraction of Guelph faculty holding tenured or tenure-track appointments was not permitted to exceed 80 per cent of the faculty complement.

Over the years, this policy has lost its force, and the fraction of faculty holding permanent positions has increased substantially, to such an extent that U of G now relies on highly paid tenured faculty more heavily than do other universities.

The commission recognizes that there are good reasons why this should be so. Nevertheless, it is proposed that we work towards the 80-per-cent figure over the next decade, not only for budgetary reasons, but also (and very importantly) to provide the flexibility we need. Under this scenario,

PhD students and postdoctoral fellows will also make increasingly significant contributions as teachers.

The SPC understands that the proposal to increase the proportion of sessional faculty will be controversial. It will be ethically defensible only if equitable terms of employment are devised.

Sessional faculty should be paid for their teaching at the same rate as other faculty with comparable qualifications and experience; the difference is that a substantial portion of regular faculty salaries is paid in support of research and service. Sessional faculty would not have support for research built into their salaries, but they could compete for research support and for any tenure-track faculty position that might arise.

The commission believes it's necessary to distinguish between sessional faculty who have a continuing relationship with the University and those who are here temporarily. Job security should be built into contracts to the extent that is possible, and provision should be made for merit pay.

Major expenditures

The need for expenditures such as those indicated below is regarded by the commission as self-evident. This list is not exhaustive, and the levels of funding we might recommend have yet to be determined. But without venture funds, we cannot adapt or maintain a high level of academic distinction. And without identifying funds to assist with any desired reconfiguration of the institution, we cannot carry out that reconfiguration. In addition, we simply must address our infrastructure deficit.

- Restore Teaching Enhancement Fund.
- Restore Research Enhancement Fund.
- Adopt VPAC Library Recovery Plan (acquisitions).
- Establish bridging/reconfiguration/renovation funds.
- Invest in new technology (computer laboratories, telephone registration, multimedia instruction, etc.).

Balancing the budget

Our current structural deficit rests at about \$9 million. The expenditures proposed here will probably amount to at least another \$5 million. Nevertheless, the SPC believes that the major savings and expenditures envisioned here, together with an increased entrepreneurial spirit and a concerted development effort, can bring us to a balanced budget. A careful costing out of the proposals contained in this report remains to be accomplished.

Clearly, there are costs and savings associated with the strategic move to a learner-centred university. An initial outlay on instructional technology, for example, may save us money in the end. But the freeing up of faculty time that would result from a reduction in the number of formal lectures per week may well be offset by increased time spent in consultation with students.

Small-group learning experiences — strategically mixed with large lectures — are essential in a learner-centred university, despite their considerable expense. But we can keep such instructional costs at a manageable level by using (in addition to regular faculty) sessional faculty, GTAs and peer-group learning.

The cost in faculty time of research supervision will also increase under this scenario. Experiential learning and improved student access to semester-abroad opportunities may prove an additional expense.

Increased support for research — including the library, laboratories and other dimensions of infrastructure — will be equally important in the learner-centred university.

For all this to occur, the total salary budget of the University must be reduced substantially. In addition, vigorous leadership will be required in University Affairs and Development, and alumni will need to be involved more extensively in fund raising (identifying money for special purposes such as endowed chairs, etc.).

Money will also need to be derived from the Heritage Fund for the development of research and teaching enterprises. The commission is confident, however, that the combined "bottom line" result of the emphases and initiatives proposed in this report would be acceptable to the Board of Governors.

Making it work

Two major recommendations have been left for last. In an era of severely constrained resources, it's all the more important that faculty workloads be equitable and that resources be allocated in a manner that is not only just but transparent. The SPC therefore calls for the development of a workload study and a resource-allocation mechanism.

These two initiatives combine with the curricular reform/program review proposed earlier to form a strategic nexus. Thus, if faculty workload, budget and existing instructional requirements are out of line with one another, adjustments might be made in any of the three areas. These adjustments should be consistent with the strategic vision of the University.

The workload study must be designed to assess workload as a whole, not just teaching load. It must take the R&D semester into account and must be acutely sensitive to differences between disciplines, as well as between different kinds of courses. It must also allow just comparisons to be made across disciplines.

Work on the design of the workload study and resource-allocation mechanism should begin this summer. A similar strategy of rationalization — assessing workload against resources against program richness and efficiency — should be applied in support areas of the University.

The next phase

A great many issues that have arisen in the process so far are worthy of examination and debate. But certain critical issues must be explored in detail soon if we are to proceed in the directions outlined in this report.

The implications of the choices facing us as we develop and implement the strategic vision must be assessed with care. To this end, the SPC proposes to create the following seven committees, whose work will begin almost immediately:

- **Academic planning** — The intent is:
 - to develop (through consultation with faculty) an understanding of the unifying themes — both present and emerging — that may be important to consider as we explore appropriate structures for teaching and research;
 - to assess and come forward with recommendations to improve our current structures (departments, colleges, faculties, program committees, research centres, etc.); and
 - to develop and apply criteria for the continuation of specializations and courses, identifying the impact of terminating those not satisfying the criteria.
 - **Workload study and resource-allocation mechanism** — The intent is to design these.
 - **The semester system** — The intent is to study the costs and benefits of abolishing the semester system.
 - **Human resources** — The intent is to assess current performance-evaluation and training systems for staff, faculty and administration, with a view to developing a closer link with the strategic directions of the University.
 - **Terms of appointment and compensation** — The intent is to study issues relating to sessionals, reduced-time appointments, research and teaching paths, the present faculty salary grid, etc.
 - **Collaboration with alumni** — The intent is to identify opportunities for alumni to become more involved in the life of the community and more helpful in strengthening it.
- Other committees will be formed if the Strategic-Planning Commission finds them necessary. Some important issues involving distance and continuing education, instructional technology, international activities and advising and counselling are being considered by existing or imminent University committees, whose deliberations will contribute to further discussions within the commission.

The SPC will also be engaged in a fuller discussion of conditions that should be met in a learner-centred university and how Guelph can more effectively achieve these conditions.

In addition, the commission intends to address concerns that some members of our community feel unable to take risks or to state controversial views or to offer advice in what they experience as a hierarchically structured and often unresponsive environment.

Much of this report, as well as most of the discussion in the commission to date, has been focused on academic dimensions of the University. Services provided to students and administrative functions will receive greater attention from the commission in the coming months. □

UNIVERSITY
of GUELPH



As part of their study on the importance of carbo loading for women, graduate students Lynne Walker and Brian Lindsay put distance runner Michelle Jackman through a practice trial to exhaustion. As Jackman pedals, her oxygen uptake is being measured.

Photo by Trina Koster, Office of Research

Is 'carbo loading' valid for women?

by Kerith Waddington
Office of Research

Are carbohydrates as important for well-trained women as for men? U of G researchers want to find out if it's as necessary for female athletes to "carbo load," a popular and legal practice in today's competitive sports world.

"Carbo loading" involves eating large quantities of carbohydrates — pasta, breads, fruits, vegetables and other grain products — for two or three days before a competition.

Carbohydrates are stored as muscle and liver glycogen, which the body uses as a fuel source. Glycogen reserves are important for sustained endurance.

But because of physiological differences between men and women, Prof. Lawrence Spriet, Human Biology, and graduate students Lynne Walker and Brian Lindsay question whether female athletes can really gain a significant advantage by carbo loading.

Earlier studies have shown that during exercise, women appear to oxidize more fat and less muscle glycogen than men. In addition, it's not known what influence hormone fluctuations due to the menstrual cycle have on muscles' "super-compensation" with glycogen.

Spriet and Walker want to help fill that information void — and they're looking for endurance-trained female volunteers to help.

"Most studies on muscle glycogen utilization have been done us-

ing male subjects and the results extrapolated to females," says Spriet. "Given the dramatic increase in the number of women competing in endurance sports, acquiring information that reflects their physiological status is of increasing importance."

The researchers will study the effectiveness of glycogen super-compensation and variations in its use based on menstrual status. Participants will perform exercise tests on a cycle ergometer after at least two seven-day diet and exercise-tapering periods. Muscle biopsies, expired gas analysis and blood samples will be gathered and interpreted.

Spriet believes innovative athletes seeking to optimize their own performance will best benefit from participation.

"Participants will acquire tailor-made results that can then be incorporated into their own fitness regimens," he says. "Maximal oxygen uptake, per-cent body fat and nutritional status will form just some of the diet and training information participants will receive."

For more information, call Spriet at Ext. 3155, leave a message at Ext. 3768 or drop by Room 120 of the Powell Building.

Funding for this research is being provided by Sport Canada and the Gatorade Sport Science Institute. □

Ontario dairy farmers wealthier, happier and more advanced

by Anne LeBold
Office of Research

Despite being smaller, Ontario dairy farms surpass New York operations in terms of income, technology investment and farmer satisfaction, says a team of U of G and U.S. researchers. But with new international trade rules, those pluses could all change.

In their "Dairy Farm Family" survey published earlier this year, Prof. Al Weersink, Agricultural Economics and Business, and colleagues at Cornell University found that typical New York dairy farms are larger, have more cows and maintain a higher level of production than their Ontario counterparts.

But Ontario dairy farmers have bigger incomes, due partly to quota policies that ensure a stable demand and price for Ontario milk. The quotas, however, are destined for eventual elimination under the recently negotiated General Agreement on Tariffs and Trade.

"The quota system has had important implications for Ontario farmers," says Weersink. "The extra earnings have given Ontario farmers a better standard of living on average and more personal satisfaction than their counterparts across the border. When the quota system goes, things will change."

The researchers' study was designed to look behind the farm gate of Ontario and New York dairy farms, which both represent

an important and large economic sector and constitute a substantial part of their national dairy sectors.

For their survey, the researchers collected information from 147 northern and western New York and 239 southwestern and eastern Ontario respondents. Some of their findings include:

- New York dairy farms are 50 per cent larger than Ontario farms;
- New York farms have an average of 81 cows per farm, compared with 47 in Ontario;
- New York cows produce 7,081 litres of milk a year, compared with Ontario's 5,943;
- Ontario's average annual income per farm is \$10,000 more than New York's;
- milk in Ontario has traditionally cost 30 per cent more than it does in New York;
- some 77 per cent of New York farm families say they are "dissatisfied" with their income, compared with 29 per cent in Ontario;
- in Ontario, 86 per cent of dairy farm families are satisfied with their business, compared with 65 per cent in New York; and

■ some 62 per cent of dairy farm families in Ontario would choose to operate a dairy farm if they were starting over today, but only 40 per cent of those in New York would.

The researchers suggest that historical differences in such national policies as social welfare, international trade and government regulation of the dairy industry may combine to keep Ontario farm families more satisfied than their New York counterparts.

"It's tempting to argue that the difference in policy is all you need to know to explain the apparent difference between farm prosperity in northern New York and eastern Ontario," says Weersink. "but there are other factors such as community services and diversity of off-farm employment opportunities that contribute to the general level of prosperity (in Ontario)."

Weersink's Cornell colleagues are Charles Nicholson, Maurice Doyon and Andrew Novakovic. The research was funded by the U.S. Department of Agriculture and the Ontario Milk Marketing Board. □

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OMAFRA sets funding deadline

The Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) has set July 29 as the deadline for applications to its Ontario Food-Processing Research Fund and its Food Systems 2002 Pest-Management Research Program for long-term projects.

Proposals must be submitted to the Office of Research by July 22 for signature approval, then must be sent directly to the ministry. Applications cannot be faxed.

OMAFRA will hold an information session June 28 to give applicants help in preparing proposals for the food-processing fund. For more information, call Ken Boyd at 767-6299.

Descriptions of both funding programs are available at the Office of Research or by calling Barbara Leachman at Ext. 8761. □

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June 29	June 22
July 13	July 6
July 27	July 20
Sept. 14	Sept. 7



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NOTICES

Volunteers needed

The Community Barbecue committee is looking for volunteers to help with the July 14 event. For more information, call Ext. 6748 or drop by the Central Student Association office on Level 2 of the University Centre.

Fire inspection

Inspection of campus fire alarm systems and devices, now required annually under Ontario's new fire regulations, is under way and should be completed by Oct. 14. Teams from Physical Resources will visit each building and will require access to all areas. Building managers will be informed before the inspections. For more information, call Randy Dodd at Ext. 3451.

The art of nature

Learn how to sketch nature with Arboretum naturalist Chris Early June 22. A session on sketching techniques and note taking begins at 7 p.m. at the nature centre. Cost is \$12. Call Ext. 4110 to register.

On the green

The Guelph Creative Arts Association will hold its 34th annual Painting on the Green art and craft sale June 25 and 26 at the Delhi Recreation Centre. Hours are 11 a.m. to 5 p.m.

Breakfast seminar

Nutrition and fitness are the topic of a free breakfast seminar June 18 from 9 to 11:30 a.m. in the Hall of Fame Lounge at the Athletics Cen-

tre. Sponsored by the Fitness and Lifestyle Program and led by Linda Barton, the session will be followed by a walk in the Arboretum. Reserve a spot at Ext. 3799.

Hillside Festival

This year's Hillside Festival will be one of the most musically diverse — and the cheapest. Early bird tickets, available for \$30 from the festival office, now include the price of admission to the Guelph Lake venue. The festival runs from June 22 to 24 and will feature 37 acts.

New walking tour

Guelph Arts Council has published the fourth in a series of walking-tour booklets — *Altar and Hearth in Victorian Guelph*. Written by former U of G chief librarian Florence Partridge and illustrated by Ida Seto, the publication will be officially launched in conjunction with the 1994 Heritage Awards presentation June 19 at 1 p.m. at the council's office at 10B Carden St. Copies of all four walking-tour booklets are available for \$3 each. For more information, call 836-3280.

Art exhibit

"Waxen Images," an exhibit of works by fine art graduate student Kathleen Hearn, is on display in the Grad Lounge on Level 5 of the University Centre until June 30.

Charity tourney

Hasson Twiss Financial Services is sponsoring a charity golf tournament for the Wellington County Lung Association June 24 at Victoria Park West. Cost of \$50 includes 18 holes of golf, dinner and \$20 tax receipt. To register, call David Tesarowski at Ext. 4090.

Cemetery tour

Take a walk through the past at the Woodlawn Cemetery's Decoration Day commemoration July 6. Walking tours at 11:30 a.m. and 2:45 p.m. will honor the men and women who have served the cemetery in some capacity.

Professional development

"Managing Diversity" is the topic of a summer institute July 17 to 21 in Calgary. Details are available at the International Education Services InfoCentre on Level 4 of the University Centre. □

CLASSIFIEDS

FOR RENT

Four-bedroom home in old University area, available Sept. 1, \$1,295 a month. Ext. 2169 or 763-0221.

Five-bedroom home, close to Stone Road Mall and campus, fenced yard, backs on to conservation land, non-smokers, available Sept. 1, 905-354-9765. Leave message for Leila.

Two-bedroom waterfront cottage, Tobermory, incredible view, available June, July and August, 519-471-7378 or 519-596-2284 evenings.

Three-bedroom lakefront cottage on inland lake on Bruce Peninsula, July and August, Ext. 2188 or 836-1397.

Small one-bedroom apartment in Rockwood, attached garage, available July 1, \$575 a month inclusive, first and last month's rent required, 856-4170 or 856-9492 evenings.

FOR SALE

18' cedar-strip single canoe, built by Cowan, excellent condition, 54" bent handle Cowan paddle, 38 lbs. 519-874-4766 evenings until 9 p.m.

Aluminum shed, 6' by 8', sliding doors; single box spring and support frame on rollers; king-size waterbed mattress, liner, heater; brown corduroy love-seats, 836-5877 evenings.

Microwave: used wardrobe, Ext. 6077 or 823-1955 after 5 p.m.

NEC digital surround sound processor for home theatre with Dolby Surround; Tiffany-style dining room light fixture, Steve, Ext. 2517 or 767-2146 evenings.

Alphabetical dividers for three-ring binders; five three-ring binders, Ext. 2965 or 821-5502.

Priscilla curtains, two pairs, soft butter yellow, suitable for bay windows, 822-3129.

Wedding gown, one year old, size 7/8, crinoline included, Tiffany, Ext. 8679 or 824-0734 and leave message.

FOR SALE

Multi-family garage sale, 50 Pleasant Rd., June 18, 8 a.m. to 1 p.m.

1988 Plymouth Horizon, automatic, power steering and brakes, AM/FM stereo, Doug, Ext. 8949, between 9:30 a.m. and 5 p.m. or 7:00 p.m. and 9:30 p.m.

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Word processing, desktop publishing, spreadsheet, database, secretarial services, quick turnaround time, affordable rates, 763-3831.

Perennial gardener offers advice on garden plans, complete garden service, Lisa, 766-4014.

Aquarium displays, maintenance and consulting, reasonable rates, Ana, 763-6397.

Free hardwood skids for raising futons or firewood, 48" x 40" x 5", 14 kg, to be stacked in the southeast corner of P13 (Stone and South Ring roads) until the end of summer, Alex, Ext. 2054.

AVAILABLE

Horticulture student to prune trees and shrubs, rake lawns, cultivate gardens, plant, will also do interior painting, clean windows, etc., reasonable, Nancy, 824-3638.

WANTED

Two- or three-bedroom home in country for mother and child, preferably with two or more acres of land, Elora/Arthur area, \$600 a month, references, Leola, 821-2497 or 837-2172.

Someone to provide mathematical adventure to enthusiastic math student entering Grade 3, one or two hours a week, schedule negotiable, Gebrnelle, Ext. 2309.

Ride from Highway 10 in Mississauga to the University, will share gas costs and/or driving, Kim, Ext. 4900 or 905-275-2247 evenings.

Classifieds is a free service available to staff, faculty, students and alumni of the University. Items must be submitted in writing by Wednesday at noon to Linde Grehm on Level 4 of the University Centre. For more information, call Ext. 6581.

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CALENDAR

THURSDAY, JUNE 16

Pathology Seminar - Graduate student Vaughan Ostland discusses "Studies on the Virulence of *Flavobacterium Branchiophilum* in Experimentally Infected Salmonids" at 11:10 a.m. in Pathology 2152.

Animal and Poultry Science Seminar - "The Application of Cost-Benefit Dominance to the Assessment of Farm-Animal Quality of Life" is the topic of graduate student Allison Taylor at 11:10 a.m. in Animal Science 141.

Macdonald Stewart Art Centre - An exhibit of Inuit textile art called "Northern Lights" opens with a reception at 7:30 p.m. Art centre director Judith Nasby will give a gallery talk about the show, which features textiles by the women of Baker Lake.

FRIDAY, JUNE 17

Biomedical Sciences Seminar - Graduate student Piotr Piotrowski considers "Transmission of Maternal Lymphocytes to the Offspring" at noon in OVC 1642.

Sociology and Anthropology Seminar - Suman Khanna, a visiting professor from Mata Sundri College at Delhi University, will speak on "The Gandhian Paradigm of Power" from 2 to 4 p.m. in MacKinnon 308.

Cycling Club - A 25-kilometre off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, JUNE 19

Cycling Club - A 35-km novice

ride to Guelph Lake extension leaves from the UC south doors at 10 a.m.

Garden Tour - The Macdonald Stewart Art Centre hosts its annual fund-raising garden tour from 1 to 5 p.m. The tour will visit six of Guelph's public and private gardens, including the Gosling Wildlife Gardens at the Arboretum. Cost is \$7 for adults, \$3 for children. Call 837-0010 for information.

TUESDAY, JUNE 21

Animal and Poultry Science Seminar - Graduate student Charles Mwenda discusses "Tannins in Tropical Forage and Browse Legumes: Characterization and Effect on Ruminant Biological Activity" at 11:10 a.m. in Animal Science and Nutrition 306.

WEDNESDAY, JUNE 22

Biochemistry Seminar - Hendrik Strating considers "Autolysins and O-Acetylated Peptidoglycan of *Proteus Mirabilis* P19" at noon in MacNaughton 222.

Cycling Club - A 25-km novice ride to Downey Road leaves from the UC south doors at 5 p.m.

FRIDAY, JUNE 24

Biomedical Sciences Seminar - Silvia Delgado, a visiting scientist from Cuba, considers "A Study of GMG Cells and Apoptosis" at noon in OVC 1642.

Cycling Club - A 25-km off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, JUNE 26

Cycling Club - A 50-km swim ride to Elora Gorge/Fergus leaves from the UC south doors at 10 a.m.

Arboretum - School is out, so bring your children on this hike to explore colors in the Arboretum. In addition to the walk, there will be an arts and crafts session with all supplies included. Meet at 2 p.m. at the nature centre.

TUESDAY, JUNE 28

Animal and Poultry Science Seminar - Graduate student Alfred Archer talks about "The Accuracy of Predicting 305-Day Yield Using Different Methods of Determining Daily Yields" at 11:10 a.m. in Animal Science and Nutrition 306.

Cycling Club - A meeting begins at 7 p.m. in Athletics Centre 203.

WORSHIP

Catholic mass is celebrated Sundays at 10:10 a.m. in the School of Landscape Architecture lobby.

Multifaith calendar

In Islam, June 19 is Ashura, commemorating the martyrdom of Hussein (the grandson of Muhammad) on the 10th of Muharram (the first month of the Islamic year). Among Shi'ite Muslims, the festival is traditionally celebrated for 10 days.

June 24 is Rahmat, the sixth month of the Baha'i year.

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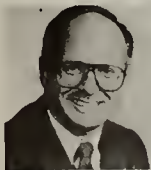
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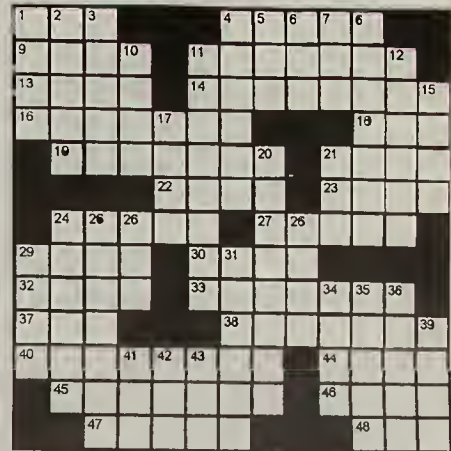
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by Walter D. Feener



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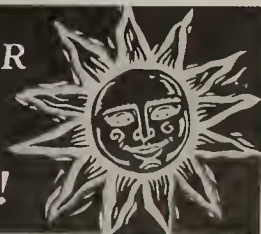
- College yell
- Soft radiance
- Toward the mouth
- Canadian football award
- Vedic god
- Paid off
- Shoe wiping place
- Culpa
- Compared
- Moist
- "Monty Python" cast member
- War god
- Scottish feudal lord
- Analyze grammatically
- Graphite
- Medieval shields
- Shakespeare's wife
- Drunken
- "The Squad"
- Where Sea Biscuit was a winner
- Female student
- She-bear: Lat.
- Wave riders
- Back talk
- Championship, in sports

DOWN

- runner
- Crude tartar
- North Vietnam capital
- "Hansel and"
- Went first
- Needle hole
- Tennis score
- Mask wearers
- Dagger
- Spanish noblemen
- Baseball player Reese
- Week units
- Chow
- Shenff's aides
- es Salaam
- Domingo and Caruso for ones

For crossword solution, see page 4.

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Welcome to Alumni Weekend!



FACS digs in to launch addition

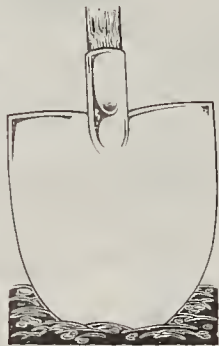
Ground-breaking ceremonies for the long-awaited FACS addition will take place June 18 during Alumni Weekend.

Participants at the 3 p.m. ceremony will include President Mordechai Rozanski, outgoing FACS Dean Richard Barham, incoming dean Prof. Michael Nightingale and Lynn Roblin and Barbara Conley, new presidents of the Mac-FACS and HAFA alumni associations.

The three-storey addition will be built on the north end of Macdonald Stewart Hall, home of the School of Hotel and Food Administration. It represents the first phase of a staged plan to improve and increase teaching and research space and consolidate the college in one building complex.

The budget for the Phase I addition is almost \$3.2 million — more than \$2.6 million in project costs and about \$570,000 to establish an endowment fund to cover future operating costs.

The need for additional space to house classrooms and laboratories



has made the FACS addition a priority project for some time. With the exception of Macdonald Stewart Hall, built in 1975, the college's buildings have undergone only minor renovations since 1953.

The 1986-1991 capital campaign raised more than \$1 million for the project in donations from corporations, alumni, faculty and

staff, and resulted in the 1991 formation of a building committee. The project has since received an additional \$1.5-million grant from the provincial government's Sector Partnership Fund as part of its contribution to the Guelph Food Technology Centre, \$500,000 in interest earned from unrestricted capital campaign funds and \$100,000 in jobsOntario funding.

The ground floor of the addition will house two case-teaching classrooms with seating for 40 and 60 students, as well as two faculty offices. The second floor will include six break-out rooms, four offices and a nutrition communication research lab, with adjacent observation room.

The top floor will contain four faculty offices and three labs. One will serve as a general-purpose wet lab for research in human nutrition. The other two will service projects in community nutrition and maternal, infant and child nutrition studies. □

Candy man will receive sweet award

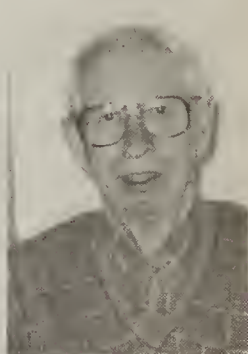
by Mary Dickieson
University Communications

When he was a kid, he practised playing Santa Claus by ho-ho-hoeing tumpits on the family farm at Nepean, Ont. When he was a mayor, he treated constituents and other politicians to one of his trademark Oh Henry bars. Now it's candy man Gordon Henry's turn to receive a treat — he'll be named U of G's *Alumnus of Honour* June 19 during Alumni Weekend festivities.

Henry was already a winner when he came from the family farm in Nepean Township to OAC in 1930 on a scholarship from the T. Eaton Co. He graduated in 1934 in dairy science and began his career in cheese manufacturing. He spent 40 years at the Ingersoll Cheese Company, through several changes of ownership, and retired as general manager in 1977.

Retirement gave him more time to devote to his other job as mayor of Ingersoll and to his many community projects. He served nine years as president of the local YMCA — and several working on behalf of the district Y Men's Club — and eight years as chair of the local school board.

Henry sat in the mayor's chair for 10 years, helping to paint the town pastel to restore the facade of downtown buildings, widen streets, build parks, open an industrial park and construct a low-rent housing project. He handed out Oh Henry bars to help visiting dignitaries remember Ingersoll and once sent some home with



Gordon Henry

Prince Charles and Diana for the little princes.

Henry's sense of fun held up through years of committee work to restructure Oxford County government. It was the first — and is still the only — restructured county in Ontario.

Since his retirement from public office, he has spearheaded construction of a condominium housing project for Ingersoll seniors.

In the 60 years since graduation, Henry has not forgotten his alma mater. As permanent class president, he has arranged a dozen class reunions, served on Senate and canvassed for the capital fund. OAC '34 class donations have included a \$35,000 oak conference table for OAC in 1984 and \$25,000 to buy furniture for a room in Alumni House. □

Wartime naval unit lands for reunion

by Margaret Boyd
University Communications

In 1943, under the auspices of Her Majesty's Canadian Ship *Star*, the first University Naval Training Division (UNTD) in Canada originated at OAC.

More than 50 years later, alumni from the program will get together to reminisce and celebrate as part of Alumni Weekend. A special reunion dinner will be held June 17 at 7 p.m. at Creelman Hall with Vice-Admiral Peter Cairns of Maritime Command in Halifax as guest speaker.

The UNTD was initiated as a program on the Guelph campus under the leadership of Captain A.W. Baker, a 1911 graduate of OAC who was a professor in the department of entomology. The Guelph program ran from 1943 to 1966, training more than 500 men.

The Naval Service of Canada considered the

UNTD a four-year officers' training program for the Royal Canadian Navy and the Royal Canadian Naval Reserve. Baker left OAC to become a lieutenant-commander and set up university naval training in 16 universities and colleges. Hundreds of officers were trained during the war, and many remained as members of the Royal Canadian Navy.

The peacetime program was expanded and continued to produce officers for the Royal Canadian Naval Reserve.

"It was fantastic training," says David Stock of Woodstock, a 1959 graduate of OAC who became a commander and served on more than a dozen ships at sea, then served 29 years on the reserve. A highlight for him was the six-week early training cruises that took him on the Atlantic Ocean to Europe.

Now a lawyer, Stock credits the Guelph training for enhancing his career. "The naval training taught me a lot about dealing with people," he says. □

OVC honors 1943 grad

OVC will present 1943 graduate Archie MacKinnon with its distinguished alumnus award June 18 during Alumni Weekend. The presentation will be made following the OVC Alumni Association's annual meeting and a reunion luncheon in the Lifetime Learning Centre.

Earlier in the day, OVC will officially open the permanent display of the C.A.V. Barker Museum of Canadian Veterinary Medical History, located in what was formerly a boardroom in the OVC main building.

After lunch, alumni will present a portrait of retiring dean Ole Nielsen to the college, and Prof. Dale Smith, Pathology, will give a talk about her travels in Africa.

MacKinnon is known in the veterinary profession for his contributions to agriculture, industry and human medicine. His career began as a Canadian army officer at Connaught Laboratories in Toronto, where he was part of a gas gangrene antitoxin production team.

He served briefly on the faculty

of OVC in the early 1940s, worked in private practice, then turned his talents to industrial veterinary medicine. He worked for Salsbury/Fromm Laboratories, now Solway Animal Health Inc., launching a Canadian company manufacturing pharmaceuticals and packaging biologics.

MacKinnon opened a British branch of the company in England in 1965 and eventually became Canadian general manager, supervising the building of current facilities in Kitchener. He retired in 1986, but continued to act as Solway's regulatory affairs manager until 1992.

Throughout his career, MacKinnon served his profession through membership and board service to the College of Veterinarians of Ontario and the Ontario and Canadian veterinary medical associations. He was a member of the board of the OVC Alumni Association from 1978 to 1986 and the OVC Advisory Council from 1983 to 1991. □



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FIRST GLANCE

Senate holds special meeting on vision paper

Senators will hold a special meeting June 28 to discuss the Strategic-Planning Commission's discussion paper "Framing the Choices." It begins at 6:30 p.m. in Room 113 of the MacNaughton building.

The draft strategic vision calls for a sharper institutional focus on the experience and responsibility of the learner and pinpoints issues that must be resolved for U of G to become first rate in the next century. The paper was published last week in *At Guelph*.

A series of open meetings for members of the University community to discuss the vision paper continues June 22 at noon in Room 102 of the MacLachlan Building and June 28 at noon in Room 442 of the University Centre. □

Inside:

Barham finishes second term as dean 3

Writers pen travel tales for good cause 4

World at Guelph 5

Bringing vegetation control down to earth 6

Inuit drawings head north for launch of international tour 9

First MFA grad has his career down to a fine art 12

Included with this issue of *At Guelph* is an insert from the Arboretum.

Thought for the week

Loneliness is the most terrible poverty.

Mother Teresa

**DOWNTOWN
GUELPH**

Fund raising begins on new aquatic facility

by Margaret Boyd
University Communications

U of G is launching a \$2.3-million fund-raising campaign for a \$6-million aquatic sciences facility to co-ordinate teaching and research space for aquatic sciences on campus. Phase 1 construction will begin in September.

This project has been approved by the Senate Committee on University Planning and the Vice-President's Advisory Council. A commitment to the project was made several years ago, but until recently, funding wasn't at a sufficient level to begin construction. All funding will be externally raised, including an endowment for operating costs. Construction will proceed only as funds become available.

The facility will be built on Christie Lane adjacent to the Axelrod Building. It will contain more than 30,000 square feet for its two components — Aqualab and the Institute of Ichthyology. Once built, the facility will allow researchers to work together in one location to address a broad range of issues related to managing Canada's fresh-water and marine resources.

To date, \$3.7 million has been raised from the public and private sectors for the project. This includes a government infrastructure grant of \$1.86 million, a Natural Sciences and Engineering Research Council equipment grant of \$1 million, a \$500,000 pledge from Rolf C. Hagen Inc. and a \$340,000 pledge from ichthyologist and author Herbert Axelrod. Substantial portions of the latter pledges have been received.

Project costs consist of \$4 million for the building, \$1.5 million for equipment and a \$1-million operating endowment.

A new facility is needed because Guelph's existing equipment and facilities to support teaching and research in aquatic sciences are seriously outdated and inadequate, says Prof. Paul Hebert, chair of the Department of Zoology. The facilities are scattered across campus, consume large amounts of water, have difficulty complying with animal-care regulations and do not permit research to be done under precisely controlled environmental conditions, he says.

The Aqualab component will consist of four areas — holding facilities, controlled environments, an environment to replicate aquatic systems for experimental work under natural conditions and a culture area for rearing such organisms as algae and zooplankton.

Aqualab will provide space and equipment for a broad range of research programs, including efforts to control invading species such as zebra mussels, says Hebert. It will use state-of-the-art water-conservation technology, which will reduce water consumption by at least 80 per cent. Aqualab will also provide the only salt-water system in Ontario for researchers working on marine organisms. More than 30 faculty from 11 departments in several

See AQUATIC on page 2



Graduate student Clare Wasteneys shown here with her daughters, Madé, left, and Theo, says day-care programs designed by aboriginal women in aboriginal

communities are helping revive a culture in jeopardy and paving the way to women's empowerment. See story on page 7.
Photo by Trina Koster, Office of Research

Lectures to be held in War Mem

War Memorial Hall will be used for a limited number of classes in this academic year.

The decision to use the historical building again as a lecture hall was made with considerable reluctance, says Prof. Constance Rooke, associate academic vice-president, but U of G has no choice but to look at new ways of doing business to live with enrolment pressures and fiscal realities.

The University is facing enrolment pressures, particularly because of student demand for social science courses, says Rooke. Using War Mem Hall will save a total of six sections this fall, for a savings of \$30,000 in sessional faculty salaries, she says.

War Mem will be used to teach sections in introductory sociology, microbiology and English this fall. The lecture-format classes

will be taught Monday to Thursday in morning and noon-hour time slots. Each of the courses taught in the hall will include a small-group learning opportunity in the form of a seminar, tutorial or laboratory.

War Mem was used for large classes on a trial basis in 1989. In 1990, following a report by Teaching Support Services (TSS), the experiment was ended. The TSS report said several problems had to be dealt with if the hall were to be used for teaching — seating, maximum classroom size, lighting, slide projectors, an audio-visual operator and ventilation. Most of these recommendations have been carried out, says Rooke.

Much of the funding to upgrade the hall was provided by alumni through the Alma Mater Fund (AMF). □



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Farcus

by David Wapagans
George Goussas

"It says here, there is a greater chance of being struck by lightning than winning the lottery."

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At Guelph summer schedule

Publication date	Copy deadline
June 29	June 22
July 13	July 6
July 27	July 20
Sept. 14	Sept. 7

Spread the credit around for anti-racism report

The letter to the University community from the president in *At Guelph* June 15 about the transfer of the director of employment and educational equity caught my eye.

It outlined the contributions that Janet Kaufman has made to the President's Task Force on Anti-Racism and Race Relations. I was a member of that task force and I would like to clarify some facts regarding the accolades bestowed on Kaufman.

The letter failed to mention that it was students and members of the Race Relations Commission that initiated the dialogue on racism on this campus and demanded a human rights policy before it was provincially legislated. These students faced many obstacles and much backlash in the form of denial about the existence of racism on campus.

It was students who contributed

their time and put their own safety at risk to battle institutional racism at U of G. These same students were the ones who sat on the task force, often missing classes, putting their research at risk, compromising child-care responsibilities and sacrificing hours of paid work to be volunteers and put the task force above everything else. Where are the letters of recommendation for these individuals?

The human rights adviser has provided a great deal of professionalism in the effort to remove barriers for students, faculty and staff of color. This office has offered immense emotional support to all who have approached it, and it has been known to stay open even after office hours.

It is also a drop-in centre on Fridays for students of color who need reassurance and advice. I have yet to see credit given to the human rights office or a calling on the University community to recognize its contributions.

The contributions of people of color always seem to lack recognition at this institution — a place that prides itself on valuing diversity. Why is this so? It seems that power structures at U of G speak in parables when the issue of equity comes about, or is there no equity when one volunteers?

The following individuals were active contributors to the writing of the task force paper and deserve credit similar to that bestowed on

Kaufman — Leanne Simpson, Charmaine Crawford, Baljit Singh, Sherman Maness, Kadi Mbanefo and Andrya Shulte.

The deadline for the release of the anti-racism and race relations paper was April 20. It was the responsibility of the Employment and Educational Equity Office to meet this deadline. The University community has yet to see it.

The energy and emotion that went into building this document involved the efforts of many individuals. The lack of recognition for their contributions is simply appalling.

Min Kaur
Undergraduate student
International development

Editor's note: A limited number of copies of the report were printed by the Office of Employment and Educational Equity and distributed on request (see *At Guelph*, April 13.) To reduce costs, the report, which required more editing and formatting time than anticipated, will be printed on newsprint along with the *At Guelph* press run next week. Bundles of these copies will be available at key locations around campus, including the offices of the Central Student Association and the Graduate Students' Association, by June 29. A list of these locations will be published in *At Guelph* next week. Extra copies of the report will also be printed to distribute in the fall when students are back on campus.

Thanks for the support

Molly and I would like to thank members of the University community for their overwhelming support during the last two weeks following the death of our daughter Rita, who was killed in a car accident June 8.

Dick Bod
OAC Dean's Office

Aquatic facility to benefit researchers

Continued from page 1
colleges are involved.

The Institute of Ichthyology component will contain areas for cataloguing and doing research on the University's large fossil collection and living fishes, as well as offices for administration, visiting scientists and for editorial and educational activities.

Improved facilities will allow researchers to further develop the ornamental and pet fish industry, already a \$1-billion-a-year business in North America, says Hebert. Major areas of concern include early development, food and growth, behavior, reproduction and physiology and stress.

The facility will also provide editorial space for three international journals that Guelph faculty founded and edit: *Environmental Biology of Fishes*, *Fish Physiology and Biochemistry* and *Guelph Ichthyology Reviews*.

Hebert says the new aquatic science facility will enhance existing relationships with various organizations:

- the Alma Aquaculture Station, which is managed by U of G with advice from the Ontario Aquaculture Association and houses the only provincial quarantine facility for fish;
- the Canada Centre for Inland Waters, through the Guelph Centre for Toxicology; and
- the Canadian Network of Toxicology Centres, headquartered at U of G.

Campus researchers from the departments of Botany, Microbiology, Zoology, Environmental Biology, Pathology, and Animal and Poultry Science will benefit from the new facility. Faculty from McMaster, Waterloo and the University of Toronto will also conduct some research in Aqualab. In addition, the facility will play an important role in undergraduate teaching, especially for students in marine biology, Hebert says.

U of G has a large group of aquatic biologists with expertise on the entire food chain. They have a long history of involve-

ment in work related to the biological effects of contaminant exposure on aquatic organisms. And they have played a leading role in applying new technologies to the study of fish-population structure in Canada and in the study of aquatic ecosystems, both in Canada and abroad.

In 1992/93, this group received \$1.3 million in research funds from NSERC and more than \$900,000 from foundations, business and industry and other grant-giving agencies.

Members of the fund-raising committee are CBS graduate Patrick Lett, chair of Trafalgar Capital Management Corp. in Oakville; Jim Bauer, executive director of the Canadian Water Resources Association; Brian Ferguson of Falconbridge Ltd. in Toronto; and CBS graduate Mark Hagen.

"I am very pleased that these people agreed to serve on this project," says President Mordechai Rozanski. "I am confident we will reach our goal."



Trent installs Conolly

President Mordechai Rozanski, left, helps celebrate the June installation of former U of G associate vice-president Leonard Conolly as president of Trent University.

Photo courtesy of Trent University

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At Guelph headlines top stories and coming events can also be accessed on GRIF.

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Please Recycle

Digging in for Alumni Weekend!



Mother Nature extended a warm welcome to the several hundred alumni who returned to campus for Alumni Weekend June 17 to 19. At left, digging in for the new FACS addition ara, left to right, David McGee of the dean's office; Prof. Donna Lero, Family Studies, Andraa Pavia, president of the FACS Students' Administrative Council; 1943 Macdonald Institute graduate Dorothy James; building architect Carlos Ventini; President Mordechai Rozanski and Guelph MPP Derek Fletcher. Below, Zoe the Clown turns Sarah Westlake of Tottenham into a cat at the FACS '84 reunion. Sarah's mom, Karen, is a graduate of FACS.

Photos by Mary Dickleson, University Communications



Growth in research, grad studies marks Barham's term

by Maurice Oishi
University Communications

During a financially lean term, it's appropriate that retiring Dean Richard Barham of FACS, a college known for its professional and business programs, should have found innovative ways to stretch a buck.

Barham, whose second term ends June 30, helped pilot development of the University's expanded commerce program, now the third-largest degree program on campus. Bringing together four departments from three colleges, it involves 1,200 students.

At the same time, the college has brought together scientists from across the nation in extensive research networks, particularly in the areas of human development, consumer behavior, human nutrition and gerontology.

Barham says it's the growth of research and graduate studies in FACS during his tenure that makes him particularly proud of his faculty colleagues. Over the past decade, graduate enrolment in the college has risen from around 30 students to 100. In 1992, HAFA introduced the first master's degree in hospitality management in Canada.

"These research networks and graduate programs really show the maturity of the college and the excellence of our faculty," he says.

Beyond campus, Barham helped develop a collaboration among Guelph, the McMaster Faculty of Health Science and the Hamilton-Wentworth Department of Public Health Services. In addition, he's overseen the development of three international education programs and an articulation agreement with Centennial College of Applied Arts and Technology.

Colleagues say his optimism and persistence have been hallmarks

of his term. At a recent recognition reception for Barham, Prof. Betty Miles, Family Studies, told of her continuing disappointment with delays in the construction of new facilities for the college — plans that have been on the table since the 1960s. After expressing her disappointment to the dean, he quelled her frustration with a request for patience. He was confident the plans would one day become reality.

"Guess where he'll be this weekend?" said Miles. "At the ground breaking for the new addition."

Barham is pleased to see the long-awaited addition arrive.

"It'll make a big contribution not only in terms of space, but also in terms of staff, student and faculty morale." Faculty are currently spread across nine buildings. The new addition will begin to correct these handicaps, he says.

In addition to his contributions in FACS, Barham has played a role in a wide range of University activities, says Prof. Jack MacDonald, academic vice-president. "There isn't a Senate committee he hasn't worked on or even chaired at one point," MacDonald says.

He also notes the dean's involvement in both developing and

implementing the strategic planning process.

Barham says such involvement has been a personal high point. Within the Business Studies Council, the FACS Dean's Council and the Academic Vice-President's Advisory Council, the air has been constructive and collaborative, he says. "It's been a great privilege to serve on these groups."

MacDonald says Barham has been a model for other deans in many ways. "He continues to have the ability to represent the college effectively, but he's also able to take a University-wide perspective."

That gives the administration of the University its unique flavor."

At a personal level, MacDonald says Barham "goes out of his way to express support and care for others, especially when they need it most."

Barham plans to begin "retracking and retreading" after the completion of his term. After a year's administrative leave, he will return to teach in his area of specialization, human development and learning.

The new dean of FACS, Prof. Michael Nightingale, director of HAFA, takes office July 1. □



Outgoing FACS Dean Richard Barham, right, will return to teaching in the area of human development and learning when his second

term ends June 30. With him at a recent reception in his honor are, from left, two of his daughters, Lisa and Vicky, his son-in-law and

grandson, Laurant and Antoine Côté, and his wife, Joan.

Photo by Maurice Oishi, University Communications

Early intervention pays off for students who are drop-out prone

by Maurice Oishi
University Communications

How do program counsellors help students stay in school when they're failing? Sometimes they shouldn't, says Prof. Fred Ramprashad, academic assistant to the dean in the College of Biological Science. At least not when it's in a student's best interest.

Rather than forcing a round peg into a square hole, it's more important to identify students who may face problems early in their academic career, he says. Armed with this information, program counsellors can spell out options for students to quell problems before they reach a boil.

That's why Ramprashad, who serves as program counsellor for the college, undertook a study to predict which students will suffer and why. The results suggest that counselling focused more on intervention right from the start could lead to a more satisfying and rewarding student experience.

The study, which looked at a group of students entering CBS from 1989 to 1991, didn't deal only with those likely to drop out, he says. It also tried to identify students who would probably require academic counselling and advising to ensure that basic academic and social shortcomings were bridged.

Each of the 225 students in the study filled out the Noel-Levitz College Student Inventory, which queried them about their personal, family, social and economic status and perceptions.

Based on the results of the inventory, students whose profiles matched those of the problem-prone were pinpointed.

The inventory indicated that 23 per cent of the group needed counselling and 11 per cent were "drop-out prone." The students weren't told which category they fell into, but each was asked to visit Ramprashad from one to three times during the semester, depending on the results of the inventory.

True to their profiles, the drop-out prone had the lowest academic scores after the first semester, followed by those judged to require academic counselling. By the end of their third semester, what Ramprashad calls the "critical make-or-break" semester, nearly 38 per cent of the drop-out prone students had withdrawn, either voluntarily or mandatorily. Others had changed programs or were on academic probation. Only 32 per cent of this group continued on largely unscathed. In contrast, few of those students who weren't part of this group withdrew.

The study's results support the theory that the inventory can be used to identify students who need aid, but does it suggest that counselling was ineffective for those who dropped out or were required to withdraw? Not by Ramprashad's standards.

Some students are dealing with other problems that can't be resolved if the student remains at university, such as financial difficulties, family problems and a lack of interest in school, he says. For those who left voluntarily, "they left with a positive impression and attitude towards themselves and the institution."

The outlook was good for those identified as drop-out prone students who made it beyond the

third semester. By graduation, their academic scores actually exceeded those of the group not deemed to be in academic peril. Similarly, those found at the outset to require counselling had caught up with the general population of B.Sc. graduates.

Although a broader study may need to be done, Ramprashad believes this study shows that this kind of approach to counselling will work. "I'd like to attribute the success of the students to early intervention."

At the same time, it dispels the misconception that "only poor students need counselling and will drop out," he says. Most students have proven academic records by the time they come here. "It's a myth that because you have good students, you don't need good advising."

The need to actively seek out and monitor students may not be to everyone's liking. "If you don't buy into that way of advising, it won't work," says Ramprashad. In addition, some may be dissuaded from taking this approach because of the potential danger of categorizing students based on perceived needs, he says.

Although pleased with the success of the program, he says it's too early to jump on the bandwagon. "Twenty-five per cent of the population needs individual advising. One person can't do it. You need people committed to it. It's not a one-shot deal, and that demands a lot of an institution."

Child-Care Centre needs odds 'n ends

Looking for something to do with those old hats, ties, scarves, shoes and Halloween costumes collecting dust in your closets and basement? Well, look no further. The U of G Child-Care Centre can put them all to good use, as well as lots of other items you don't want any more.

"Children enjoy dressing up, and props such as hats, shoes and clothing can greatly stimulate their imaginations," says centre director Judy Callahan.

The centre also welcomes old calendars and posters for decorating playrooms, multicultural items like woks and bongo drums to encourage a greater understanding of different cultures, and children's tapes, books, toys, tables and chairs, she says.

Some of the other items the centre could use are wigs, small musical instruments, doll clothes, telephones, radios, old curlers and hairdryers, washable pillows, flashlights, uniforms, hoses, sporting equipment, filing cabinets, tablecloths, small carpets, sunglasses, cooking utensils, plastic dishes and washable stuffed animals.

Items can be dropped off at the centre Monday through Friday from 7:30 a.m. to 5:30 p.m.

The centre is also collecting Zehrs receipts and Canadian Tire money to buy educational toys. For more information, call Callahan at Ext. 2682. □



Prof. Constance Rooke assembled 35 writers to contribute to this fund-raising travel anthology.

Photo by Margaret Boyd, University Communications

Writers pen travel tales to raise funds for PEN

by Margaret Boyd
University Communications

When PEN Canada, a branch of the international organization of writers and editors, proposed a travel anthology last fall to raise funds for its international human rights efforts, 35 Canadian writers rose to the challenge. They volunteered to write personal accounts of their experiences travelling around the world.

The result is *Writing Away*, edited by Prof. Constance Rooke, associate academic vice-president and a board member of PEN Canada. Recently published by McClelland & Stewart Inc., the book is being distributed in Canada, the United States and the United Kingdom. Proceeds will go to the Canadian Centre of International PEN in support of its work on behalf of free expression and writers in prisons around the world.

"These extraordinarily busy, wonderfully talented people, almost all of whom were deep in other projects, said 'yes' in astonishing numbers when they knew it was PEN that needed help," says Rooke of the contributing writers.

Writing Away contains Margaret Atwood's recollections of travelling Europe as an impecunious and unknown writer in the '60s, photographs by Michael Ondaatje, poems by Leonard Cohen, June Callwood's memories of great swimming experiences, Timothy Findley's portrait of the Barbados lifestyle and Jane Urquhart's description of her pilgrimage of rediscovery in France.

Other pieces include Robertson Davies on the discomfort of sea voyages, David Adams Richards on air travel and Thomas King on travelling by car and rail. Pierre Berton, Alice Munro and John Raulston Saul tell about their travel experiences in Canada.

Rooke, who assembled the company of authors and wrote the book's introduction, says writers like to travel "because they are

pathologically curious and because they are trained observers. They are interested in the play of sameness and difference, and travel sharpens all of that."

Writing Away also includes a special introduction by author and honorary PEN Canada member Salman Rushdie and a concluding chapter by Alison Gordon, president of PEN Canada.

"For a writer in prison, freedom of expression is not an abstraction," writes Gordon. "Nor is it one for the families of writers who have disappeared mysteriously or been murdered for their words. For members of International PEN... it is the most precious freedom, and PEN's members are dedicated to defending it wherever it is threatened."

PEN Canada is currently active in the cases of 32 writers in prison or under threat in Angola, Bangladesh, Burma, China, Cuba, Egypt, Guatemala, Indonesia, Iran, Korea, Peru, the Philippines, Sri Lanka, Thailand, Tibet, Turkey, Vietnam and Zaire. □

New network funds available

Ottawa is calling for applications for a new Network of Centres of Excellence competition, which is being funded to the tune of \$48 million.

Applications are sought in five target areas: advanced technologies; environment; health research; technology-based learning; and trade competitiveness and sustainability.

These networks will provide opportunities to develop innovative research approaches that cross traditional disciplinary and sectoral boundaries, and promote collaborations among social, physical and medical scientists and engineers.

Full competition details are available from the Office of Research. The deadline for letters of intent is Sept. 1. □

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WORLD AT GUELPH

Brazilian study seeks white mould controls

by Margaret Boyd
University Communications

White mould, a disease that affects more than 350 species of plants worldwide, including economically important cash crops such as white beans, canola, soybeans, peas, tomatoes and carrots, can be reduced by rotating certain crops and leaving crop residue on the soil surface. That's the finding of a scientist visiting U of G from Brazil's Centro de Pesquisa Agropecuária dos Cerrados.

White mould in Brazil is a serious problem, says researcher Luiz Nasser. A seed-borne fungus, it can cause sporadic losses of up to

30 per cent of the country's important soybean crop. Nasser and Prof. John Sutton, Environmental Biology, have found the disease diminishes in beans grown under zero tillage in areas previously sown to upland rice in the summer. The soil is covered by a three- to five-centimetre layer of rice residue, which effectively buries the fungus.

In a growth-room trial at Guelph, Nasser has re-created the Brazilian Cerrados to determine the most effective method of controlling the fungus. The project includes treatments of crop residues on the soil surface and comparisons of soil moisture.

By controlling factors such as temperature, humidity, soil moisture and residue conditions, Nasser can observe the onset of white mould under typical conditions that exist in the Cerrados. "We are re-creating in the lab what we saw in the field," he says.

Soil moisture

Initial results indicate that survival of the fungus after 120 days was reduced by 64 per cent when buried three centimetres and by 40 per cent when placed on the soil surface. Reduced fungal survival was associated with higher and longer duration of soil moisture under wheat residue.

White mould was introduced in the 1980s in the Cerrados (savannah) soybean area; it is most severe in years of high rainfall with no dry spells in the summer season.

With the introduction of overhead irrigation in the mid-1980s — mainly through centre pivots — farmers were able to extend their crop season into the summer by cropping to soybeans. Different cropping regimens were adopted over the years, often geared to the most profitable crops.

Extended cropping to soybeans caused problems, however, espe-



Researcher Luiz Nasser has re-created a Brazilian savannah in a campus growth room to learn how to control white mould.

Photo by Margaret Boyd, University Communications

cially when alternated with dry beans, peas or tomatoes. White mould increased, resulting in increased fungicide use. But intensive use of fungicides reduces their effectiveness and increases the risk of residues contaminating the food of both humans and animals, says Nasser.

"By using crop rotation and residue techniques, fungicide costs could be substantially reduced, with potential savings to the farmer of \$4,000 U.S. per centre pivot per 100 hectares of dry bean-growing period," he says.

The growth-room trial is being extended to a four-year joint project between Canada and Brazil. Field and lab trials involving crop

sequences (soybean-bean-wheat-corn) and soil management (zero-till, conventional tillage) will be conducted in Brazil and at the Arckell Research Station. Other Guelph researchers involved in the project are Prof. Greg Boland and technician Terry James, Environmental Biology, and Prof. Tony Vyn, Crop Science. □

International consultant leads course

Janice Jiggins, an international consultant in participatory rural development from the Netherlands, has just wrapped up her third annual stint leading an intensive three-week learning-in-action course in the Department of Rural Extension Studies.

The participatory research and extension course is targeted at graduate and senior undergraduate students majoring in rural extension, landscape architecture and rural planning and development.

The course has no pre-set program and no formal lectures. Instead, it's an interactive process that evolves over the three weeks, with students sharing the responsibility for what they learn, Jiggins says.

"It gets students thinking," she says. "They are able to practise in the classroom the relationships they would seek to develop and strengthen in a community."

Originally from England, Jiggins is associated with Wageningen Agricultural University in the Netherlands, but her work takes her around the world, particularly to sub-Saharan Africa and southern Asia.

Her links with U of G have grown since she taught the first three-week course in 1991. She is now an adjunct professor and is beginning this year to supervise graduate students. She recently wrote an article on participation and community action with Prof. Jim Shute, director of the Centre for International Programs. □

Royal Society offers support

The British-based Royal Society offers several awards open to Canadian researchers. These include study-visit and fellowship grants offered under the society's exchange program with the Natural Sciences and Engineering Research Council of Canada (NSERC). For more information, write to NSERC at 350 Albert Street, 14th Floor, Ottawa K1A 1H5 or call 613-995-5857. □

Rotary funds scholarships

Students wishing to continue their studies abroad for an academic year can apply for the Rotary Foundation's Ambassadorial Scholarship, which provides round-trip airfare and up to \$21,500 U.S. for tuition fees, living costs and language training. For more information, students are advised to contact a local Rotary Club. □

POSTCARDS



→ Prof. Peter Kevan, Environmental Biology, recently returned from Nicaragua, where he helped prepare a proposal for a project encompassing applied ecology and natural resource sciences for the country's autonomous Atlantic regions. The project, proposed by the Centro de Investigaciones y Documentación de la Costa Atlántica and the University of Central America, would involve faculty and students from U of G and elsewhere in joint research and teaching in basic and applied ecology aimed at helping to develop policies for sustainable land use and conservation.

→ Prof. John Pratschke, Consumer Studies, was in Cuba last month with a group of Ontario business academics presenting lectures, seminars and workshops on business management and marketing in Havana and Santiago de Cuba. Pratschke gave plenary addresses on "Observations on Decision Making" and "Desarrollo Industrial y Mercadotecnia." He also spent a week as a visiting professor at the

Management Centre for the Ministry of Basic Industry.

→ Prof. Michael Hoy, Economics; professor emerita Nora Cebotarev, Sociology and Anthropology; Prof. Jim Shute, Centre for International Programs; graduate student Cecilia Rajanayagam, Rural Extension Studies; and international development undergraduate Sheela Samat participated in a national workshop at the Banff Centre on "New Directions for Development Studies." The University of Calgary, host of the workshop, is conducting an analysis of undergraduate international development studies in Canadian universities. Shute is a member of the project advisory committee. He was also one of seven Ontario university representatives invited to participate last month in a meeting between the Ontario Council for International Co-operation and Foreign Affairs Minister André Ouellet as part of Canada's foreign policy review. □

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VMAP targets reduced herbicide use in forests

by Jeff Stuart
Office of Research

Can't grow the forest for the trees? Alternatives to aerial herbicide spraying for "weed tree" control in conifer plantations are being sought by U of G researchers through the biggest provincial program ever dedicated to this cause.

The Vegetation Management Alternatives Program (VMAP), co-ordinated by the Ontario Ministry of Natural Resources, is designed to address public concerns about herbicide use in Ontario forests.

For decades, aerially applied herbicides have been the main method of suppressing undesirable vegetation (such as competing trees and shrubs, sometimes called "weed trees") in regenerating forests. Now, researchers are trying to better understand forest ecosystems and interactions among vegetation species, which they hope will lead to sound eco-

system-based management of commercial forests and a reduced dependence on herbicides.

VMAP is spearheading several dozen research and education initiatives. One of its largest projects, called the Fallingsnow after a nearby lake in the Thunder Bay research area, involves Profs. Jim Bogart, Zoology, and Andy Gordon, Environmental Biology. The study looks at alternatives to aerial herbicide spraying specifically in the reforestation of commercial softwoods.

Replanted stands of pine and spruce compete with faster-growing birches, aspen and woody shrubs like raspberry for nutrients and sunlight. Various methods for clearing these and other competing vegetation are used to maximize growth of the commercially valuable species.

But clearing alters the surrounding habitat and can significantly affect forest ecosystems. So teams of researchers from around On-

tario have been assembled to investigate — over a period of up to five years — changes in soil nutrient cycling and microclimate as well as plant, insect, mollusc, amphibian, reptile, small and large mammal and bird populations associated with the various treatments.

Bogart is using his expertise in amphibian and reptilian biology to assess the impact of four different test treatments on resident populations of these animals. The treatments are two herbicides, Vision and Release, and two non-chemical methods — manual clearing using brush saws and mechanized clearing using a machine called a Silvana Selective.

The study area includes four separate blocks ranging from 25 to 50 hectares, with a portion of each receiving one of the four treatments and a control (no treatment).

"The diversity and variety of amphibian lifestyle and habitat make them ideal bioindicators," says Bogart. "With their permeable skin, amphibians living in ponds, trees and the forest floor are especially sensitive to the accumulation of airborne and dissolved toxins."

All four of the test treatments cause some degree of alteration to amphibian and reptile habitats.

Bogart and his students will be spending the next several summers sloshing through ponds and tramping through forests in their study areas about 30 kilometres from Thunder Bay. They'll be monitoring populations of resident amphibian and reptile species, including frogs, toads, salamanders and snakes, before and after the treatment programs begin to calculate population demographics, mortality and reproductive success.

In field studies, the researchers are estimating the population sizes of various species by capturing and marking individuals, then following their progress in subsequent years. Egg masses are counted and observed to determine the developmental stage of individuals of various species.



Prof. Tom Hsiang, left, and graduate student Herbert Tuey are investigating the



Crop science graduate student Michael Irvine, left, and assistant Darrell Mueller are working on an integrated weed-management strategy for forest nurseries.

In the laboratory, various genetic analyses are being conducted to indirectly assess the reproductive health of populations of species. These techniques allow the investigators to identify possible "bottlenecks" that can occur when a large proportion of the breeding population fails to reproduce, resulting in an episodic loss of genetic variability or a shrinkage of the gene pool.

Master's student Megan Harris is studying the toxicological effects of the herbicides Vision and Release by looking at the effects of typical concentrations on amphibian egg growth and development.

Gordon and research associate Jamie Simpson are doing the groundwork in the Fallingsnow study. Simpson is responsible for determining the effects of the two herbicides and two manual treatments on soil nutrient cycling — the decomposition of dead organic matter and its eventual re-entry into other levels of the ecosystem.

He says changes in nutrient cycling dynamics under various control practices provide some of the fastest visible results of selective defoliation because the ecosystem becomes overloaded with large amounts of decaying material over a relatively short time period.

"This can result in leakage of important plant nutrients from some areas, particularly when located on a grade, which may lead to nutrient depletion and ultimately decreased growth of crop trees," says Simpson.

He's conducting field studies where he collects soil samples for various laboratory analyses and measures the vertical and lateral distribution of minerals, nutrients and soil water.

Other Guelph researchers are involved in related VMAP studies aimed at reducing the forestry industry's reliance on chemical herbicides.

Prof. Ralph Brown, research associate Moatasim Sidahmed and

graduate student Mehrdad Darvishvand-Taher, Engineering, are studying the Algonquin air-blast sprayer as an alternative to aerial spraying. This ground-based machine may allow more precise and direct application of herbicides than aerial spraying by minimizing drift, which means fewer chemicals are required.

Brown says it's important to establish the optimum working conditions for the sprayer, "especially to get some idea of off-site drift so that we can maintain the necessary buffer zone around stands of crop trees." The Algonquin sprayer is especially suited to shelterwood or to areas that have not been clear-cut; aerial spraying of these sites is difficult.

Crop science graduate student Michael Irvine is developing an integrated weed-management strategy for forest nurseries. He's monitoring crop tree growth with and without competition and assessing the critical period for weed removal during the early growth of eastern white pine.

"We hope this research will lead to reduced herbicide use in forest nurseries and the production of more vigorous planting stock that will grow well with less reliance on herbicides after planting in the forest," Irvine says.

Prof. Gerry Stephenson, Environmental Biology, is evaluating the use of bialaphos, a natural microbially produced herbicide, and glufosinate, a synthetically produced analogue, on the management of forest weed species.

He's conducting studies to determine the effects that these herbicides have on commercially important boreal coniferous species like jack pine, black spruce and white spruce, and whether there are effective rates of application that control competing species like aspen and raspberry without harming these crop trees.

"Although synthetic herbicides offer substantial benefits to forest management, naturally produced herbicides like bialaphos can be as effective and are more acceptable



In the School of Engineering, Prof. Ralph Brown, left, Mehrdad Darvishvand-Taher, centre, and Moatasim Sidahmed are studying the Algonquin air-blast sprayer as an alternative to aerial spraying.



the combined use of the herbicide Vision with a fungal pathogen to control weeds.
Photos by Trina Koster, Office of Research

to the public," says Stephenson.

Another environmental biologist, Prof. Tom Hsiang, is investigating the combined use of the herbicide Vision with a fungal pathogen to control weed species.

"The active ingredient of Vision — glyphosate — is the most commonly used forestry herbicide," says Hsiang. "We may be able to reduce its use by 75 per cent by using it only to weaken plants, which may then be overcome by the fungal pathogen. Reduction of glyphosate application rates would reduce the risk of crop mortality and minimize the environmental impact from herbicide applications."

VMAP environmental co-ordinator R.A. Lautenschlager says a primary

goal of the program is to provide leadership in advancing all aspects of forest vegetation management in Ontario. The findings of U of G researchers involved in VMAP studies will ultimately influence the development of government policy for commercial forestry-management companies, he says.

"Although many believe that non-chemical approaches are environmentally friendly, it's imperative to examine other approaches alongside these standard chemical methods to properly assess their relative effectiveness and environmental consequences," says Lautenschlager. "Only then can responsible management recommendations be made." □



Graduate student Megan Harris and Prof. Jim Bogart are assessing the impact of different test treatments on amphibians and reptiles.

Aboriginal day care opens path to the empowerment of women

by Desmond Hutton
Office of Research

Day-care programs designed and implemented by aboriginal women's organizations in aboriginal communities help revive a culture in jeopardy and represent a path to greater gender equity and family security, say U of G researchers.

Clare Wasteneys, a graduate student in the University School of Rural Planning and Development, and her adviser, Prof. Jackie Wolfe-Keddie, have found that the benefits aboriginal women gain from planning and implementing community day-care programs far exceed the advantages of simply gaining access to job-creation or job-training programs.

After talking to aboriginal women's groups across the country and examining several community programs in depth, the researchers found that aboriginal women involved as active agents in planning child-care programs are empowered to speak out for equal rights and against family violence.

"In some cases, aboriginal men are starting to see the positive contribution to the community resulting from women's involvement with day-care programs and are developing more respect for women as a result," says Wasteneys. "Some aboriginal men are becoming more involved in child care themselves."

She says the combination of empowerment and increased respect from men can be an important step towards defusing abuse of aboriginal women by aboriginal men.

"It can build greater self-confidence and improve planning and communication skills for women, and it can increase recognition and respect for aborigi-

nal women's organizations," she says. "The participation of aboriginal women in day-care program planning helps revive the native traditions of women being responsible for transmission of culture and being equal partners with men in community decision making. Through culturally based day-care programs, traditional culture, native language and native parenting skills can be revived."

Wasteneys says that many current problems among aboriginal people are a spillover from colonization and the decades when aboriginal children were sent to residential schools by the federal government. Aboriginal traditions were prohibited there, and students lost their dignity and self-esteem. In addition, the separation of children from their families prevented the transfer of parenting skills.

When the native children left school, chronic and well-documented problems such as alcoholism and abuse followed, which have had a devastating effect on families, she says.

Wasteneys sees that beginning to turn around. Aboriginal people across Canada are asserting their rights to community control of education, child care, health and other services, as part of their agenda for greater self-government. Aboriginal women's efforts to plan and implement day-care programs are a significant contribution to this movement, helping to restore gender equality and ensure a better future for aboriginal children.

Federal and provincial governments need to increase their support for aboriginal women's initiatives, Wasteneys says.

This research is sponsored by the Canada Mortgage and Housing Corporation. □

Guelph-area researchers combine forces to tackle issues of food safety

Hamburger disease. Salmonella. Listeria. Cryptosporidium in the water supply.

Each year, 10,000 North Americans die from bacteria in their food, and more than seven million suffer from food-borne illnesses. To better respond to issues of food safety, researchers in Guelph have decided to pool their expertise and establish the Guelph Group for Research in Food Safety (GGRIFS).

Guelph has become a major centre in North America for research on food safety. Scientists with U of G, the Health of Animals Laboratory of Agriculture and Agri-Food Canada, the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) and Health Canada are engaged in research on food-safety issues and already work together on an ad hoc basis. But given their proximity and recent collaborative projects, the researchers have recognized that more can be achieved by pooling their resources.

An example of this collaboration is a recently completed survey on the incidence of verotoxinogenic E. coli on dairy farms. This bacterium is the same one responsible for an outbreak of food poisoning in the United States last year associated with undercooked hamburgers at the Jack in the Box fast-food chain.

Little is known about how this organism is transmitted. The Guelph survey, involving researchers at the University, Health Canada, Agriculture and Agri-Food Canada, OMAFRA and the Hospital for Sick Children in Toronto, was designed to shed some light on this problem.

The success of this led to the formation of GGRIFS.

GGRIFS consists of more than 20 researchers from a variety of disciplines, including microbiology, food science, veterinary medicine, epidemiology, risk assessment and communications. They have access to equipment and research funds totalling more than \$10 million as well as expertise built up by years of working in their respective fields.

Current research includes development of rapid methods for detecting and identifying food-borne pathogens, strategies to control the growth of these pathogens, epidemiology of food-borne illness, mechanisms of pathogenicity, new models of risk assessment for food-borne pathogens and risk communication.

The main goal of GGRIFS is to foster links among researchers, the food industry, consumer groups and regulatory agencies

to bolster the Canadian agri-food sector through public protection, enhancement of trade and increased awareness. This will be achieved by:

- improving communication and promoting collaboration among food-safety researchers in Guelph;
- improving research funding opportunities;
- identifying and addressing emerging food-safety issues;
- serving as an information resource and engaging in dialogue with public, government, academic and industrial communities on issues of food safety;
- functioning in an advisory capacity on matters of food safety for provincial and federal governments, industry and others; and
- enhancing the training of highly skilled personnel in areas of food safety. □

Graduate studies associate dean up for review

A committee has been established to review the position of associate dean of graduate studies and make a recommendation on the reappointment of Prof. Susan Pfeiffer to a second three-year term.

Chaired by Prof. Doug Ormrod, dean of graduate studies, the committee consists of Prof. Robert Brooks, Physics; Prof. Ann Gibbins, chair of the Department of Animal and Poultry Science;

graduate student Karen Houle, Philosophy; College of Social Science Dean David Knight; Prof. Betty Miles, Family Studies; Prof. Annette Nassuth, Botany; and graduate student Baljit Singh, Biomedical Sciences.

The committee invites written comments and recommendations from members of the University Community by June 30. □

RESEARCH AWARDS

Agriculture Canada awarded funding for the following projects:

- \$42,500 to **Adrienne De Schutter**, Independent Study/OAC ACCESS, for a learner's manual on environmental farm plans.
- \$5,000 to **Prof. Mansel Griffiths**, Food Science, for an "Enumeration of Bacteria on Beef Carcass Surfaces by HGMP, Bioluminescence and Autofluorescence."
- \$54,818 to **Prof. Michael Goss**, Land Resource Science, "To Identify the Seasonal Variation in Well-Water Contamination and Survey the Health of Farm Families' Drinking Water Contaminated with Nitrate or Bacteria."
- \$53,791 to **Prof. Bev Kay**, Land Resource Science, to study the "Influence of Soil Texture and Tillage Practices on the Susceptibility of Legume Nitrogen to Leaching."
- \$21,000 to **Prof. Karl Meilke**, Agricultural Economics and Business, for his work on "Trade and Economic Integration in the Western Hemisphere."
- \$40,000 to **Prof. George Thurtell**, Land Resource Science, for "Detailed Measurements of Trace Gas Fluxes from Small Plots."

The Canadian Association of Animal Breeders has provided the following awards:

- \$10,000 to **Profs. Jim Squires**, Animal and Poultry Science, and **Stan Leibo**, Biomedical Sciences, for a project called "Generation of Transgenic Animals by Sperm-Mediated Gene Transfer." Leibo also received \$8,000 for a "Comparison of Fertility of Cryopreserved Bovine Sperm with Its Capacity to Fertilize Oocytes In Vitro."
- \$50,000 to **Prof. Larry Schaeffer**, Animal and Poultry Science, and **Jacques Chesnaux** of Agriculture and Agri-Food Canada, for "Studies on Improvements to the Animal Model for Production Traits." Schaeffer also received \$35,000 for "Intercin Within Herd Genetic Evaluations After Each Test Day."
- \$4,000 to **Prof. Mary Buhr**, Animal and Poultry Science, for the "Firezyme Project" and \$7,000 for a project entitled "Controlling Sperm Calcium Naturally."
- \$15,000 to **Prof. Peter Pauls**, Crop Science, and **Thomas Kroetsch** of United Breeders Inc. for an "Evaluation of Flow Cytometry as a Quality-Control Method for the Canadian Bovine Artificial Insemination Industry."
- \$15,000 to **Prof. Stan Blecher**, Molecular Biology and Genetics, for "A Molecular Approach to Non-Invasive Sexing of Bovine Embryos and Sperm."
- \$12,000 to **Prof. Allan King**, Biomedical Sciences, to study "Oocyte and Embryo Response to Thermal Stress In Vitro."
- \$75,000 to **Prof. Ted Burnside**, Animal and Poultry Science, for "Genetic Evaluation Procedures for Conformation and Longevity of Dairy Sires and Cows." Burnside and **Prof. John Gibson** received \$12,000 for "Developing Indices as Marketing Tools for Beef Bulls." Burnside and colleagues **Profs. James Wilton** and **Brian Kennedy** were awarded \$512,000 by Agriculture and Agri-Food Canada for a "Task Order Contract for Research and Development in Support of Canadian Domestic Farm Animal Evaluation Programs."



Fulford Fundy Fish Farm Ltd. provided **Prof. Tanya MacLaurin**, HAFSA, with \$30,000 for her work on "Development and Consumer Acceptance of Value-Added Salmon Food Products."

Canadian Agra BioCube Inc. awarded

\$14,485 to **Prof. John Burton**, Animal and Poultry Science, for "Estimates of Nutrient Availability in a New Concentrate Feed." **CBS Dean Bruce Sells** received \$38,165 from the Canadian Diabetes Association for a project entitled "Effect of Insulin On Transcription Factors Controlling Ribosome Biogenesis."

The Canadian Network of Toxicology Centres has provided:

- \$85,000 to **Prof. Herman Boermans**, Biomedical Sciences, for his work on immunotoxicology.
- \$95,000 to adjunct professor **Kristin Day**, Environmental Biology, for a project called "Validated Bioindicators."
- \$8,000 to **Prof. Beverley Hale**, Horticultural Science, for her work on metal speciation.
- \$5,000 to **Prof. Vernon Thomas**, Zoology, to study "The Potential Toxicity of Lead Substitutes Proposed for Sport Fishing Weights."

DowElanco Canada awarded the following support:

- \$99,774 to **Prof. Chris Hall**, Environmental Biology, for "Development of Monoclonal Antibodies to AcCase Inhibitors: Development and Evaluation of an Antibody-Based Model for Screening New Classes of Acetyl Coenzyme A Carboxylase Inhibitors." Hall was also awarded \$111,000 for "Development of Antibodies and/or Test Kits for Detection of Pesticides."
- \$65,021 to **Prof. Jonathan Schmidt**, Environmental Biology, for "Identification and Characterization of Sensory Pesticides."

Prof. David Swayne, Computing and Information Science, was awarded \$9,000 from Environment Canada for "Development and Investigation of Artificial Intelligence Paradigms for Environmental Problems" and \$17,600 for "Software and Methodologies for Ecotoxicological Assessment."

The E.P. Taylor Equine Research Competition provided the following funding:

- \$16,000 to **Prof. Mike Lindinger**, Human Biology, for his study of "Acclimatization of Horses Subjected to High Ambient Temperature and Relative Humidity"
- \$5,250 to **Prof. Mike Livesey**, Clinical Studies, for Phase 2 of "The Development of a Classification System for Coding the Conditions Producing Signs of Colic in Horses."
- \$6,774 to **Prof. Jim Raeside**, Biomedical Sciences, for "Two Applications of Steroid Hormone Measurements in Equine Reproduction — Plasma Dhydroepiandrosterone in the Normal and Dysmature Newborn, and Estrogens in Semen and a Possible Relationship to Fertility in the Stallion."
- \$22,994 to **Prof. Julie Yager**, Pathology, for her work on "Protective Immunity Against *Rhodococcus Equi*."

Environment Canada awarded \$15,000 to **Prof. Graeme Spiers**, Land Resource Science, for an "Evaluation of Soil Sampling and Analysis."

Prof. Lawrence Spriet, Human Biology, received \$13,000 from Fitness and Amateur Sport's Applied Sport Research Program to study "Dietary Carbohydrate and Optimal Endurance Performance in Well-Trained Women."

Forestry-NODA awarded \$85,560 to **Prof. Glenn Fox**, Agricultural Economics and Business, for an "Economic Evaluation of Forest Research: A Framework for Allocation of Research Funds." He also received \$37,200 from Forestry Canada for a "Tradeoff Analysis in Protecting Woodland Caribou in Multiple-Use Forestry in Northwestern Ontario."

Prof. Christine Bold, English, was awarded \$3,000 by the Foundation for Educational Exchange Between Canada and the United States for an "American Studies Dissertation Registry."

The B.F. Goodrich Company awarded \$55,000 U.S. to **Prof. Jim Stevens**, Phys-

ics, for "The Development of Thermoplastic Polyurethanes as Polymer Electrolytes." He also received \$9,101 from NATO for his work on "Solid Polymer Electrolytes for Fuel Cells, Batteries and Smart Windows."

Profs. Joseph Tindale and **Joan Norris**, Family Studies, were awarded \$8,500 by Health and Welfare Canada for their project "Among Generations: The Cycle of Adult Relationships."



Ontario Pork awarded \$3,000 to **Prof. Scott McEwen**, Population Medicine, for a "Risk Assessment of the Use of Alternative Feeds in the Swine Industry."

H.J. Heinz Co. of Canada Ltd. awarded \$66,000 to **Prof. Mare Le Maguer**, Food Science, for "Characterization of the Functional and Physico-Chemical Properties of Tomato Centrate."

Kelco awarded \$34,979 U.S. to **Prof. Doug Dalgleish**, Food Science, for his work on "Polysaccharides in Dairy Products." He also received \$3,600 from Massey University in New Zealand to study competitive emulsification.

Prof. Shai Barbut, Animal and Poultry Science, received \$10,469 from Lavery De Billy for a project called "Storage Stability of Minceed Meat."

Bill Keith, Food Science, received \$175,000 from OMAF's Ontario Food-Processing Research Program for his work on "Non-Thermal Micro-organism Reduction and Deinfestation of Dry Particulate Goods." This project also received \$6,000 from Maple Leaf Grocery Products.

The Ministry of Citizenship awarded \$50,000 to OVC associate dean **Alastair Summerlee** for the project "Veterinary Education for Access, Retraining and Remediation in Ontario."

Prof. Laurent Viel, Clinical Studies, received \$8,890 from the Morris Animal Foundation for an "Assessment of Pulmonary Function Using Forced Oscillation in Horses."

The Ministry of Natural Resources (MNR) provided the following support:

- \$3,000 to **Prof. Jim Atkinson**, Animal and Poultry Science, in support of **Derrick Romain's** master's thesis project on "Bear Food Habits and Nutrition."
- \$14,950 to **Prof. Moira Ferguson**, Zoology, for "Genetic Characterization of Mixed-Stock Walleye Populations in Southern Lake Huron Using Biochemical and Molecular Genetic Techniques."
- \$7,500 to **Prof. Andrew Gordon**, Environmental Biology, for a "Demonstration Forest Project."

MNR's Forest Research Institute awarded \$14,460 to **Prof. Paul Goodwin**, Environmental Biology, "To Survey Landscape Trees in Ontario to Determine if *Xylella fastidiosa* is Present and to Attempt to Determine the Distribution of the Pathogen."

NATO's collaborative research program has provided:

- \$7,578 to **Prof. Elmer Alyea**, Chemistry and Biochemistry, for a "Solid-State Multinuclear NMR Study of Some Group 3 Compounds."
 - \$5,312 to **Prof. Cynthia Scott-Dupree**, Environmental Biology, for "An Investigation of the Potential Transmission of Viruses by *Acarapis Woodi* (Rennie) to Honeybees, *Apis mellifera* L."
- The Natural Sciences and Engineering Research Council (NSERC) provided the following support for research abroad:
- \$2,300 to **Prof. Mary Beverley-Burton**, Zoology, for her work on "Monogenea: Biology and Taxonomy" at the Univer-

sity of Queensland in Australia."

- \$1,600 to **Prof. Anthony Clarke**, Microbiology, to study "Structure and Function Relationship of Glucosylase" at the Carlsberg Research Centre in Copenhagen.

NSERC and Heinz have funded a project by **Prof. Peter Pauls**, Crop Science, entitled "Increasing the Quality and Safety of Processed Tomato Products by Developing Fungal-Resistant Field Tomatoes Through In Vitro Selection." NSERC provided \$36,000; Heinz provided \$18,000 and \$58,500 in-kind. Pauls was also awarded \$10,150 by Pioneer Hi-Bred International Inc. for an "Assessment of Genetic Relationships Among Alfalfa."

NSERC awarded \$7,400 through its industrially oriented research program to **Prof. Doug Larson**, Botany, for his work on "Patterns and Mechanisms of Vegetation Re-establishment on Cliff Faces in Abandoned Limestone Quarries."

Prof. John Roff, Zoology, and a colleague at Laval University have received \$63,625 from NSERC's strategic grant program for the project "Les échelles d'hétérogénéité cotier et la modélisation de leur impact sur l'écosystème littoral."

Novacor awarded \$43,400 to **Prof. Warren Piers**, Chemistry and Biochemistry, for his work on "Self-Activating Zwitterionic Base-Free Ziegler-Natta Olefin Polymerization."

Prof. Jim Taylor, Landscape Architecture, was awarded \$6,500 by Parks Canada for a "Critique and Study on the Enhancement of Parks Canada's Visitor Activities Management Process."

The Poultry Industry Centre awarded \$5,000 to **Prof. Eva Nagy**, Veterinary Microbiology and Immunology, to develop an "Improved Diagnostic Probe to Aid in Differentiation of Virulent and Avirulent Infectious Laryngotracheitis Virus."

Semex Canada awarded \$10,000 to adjunct professor **Morris Freeman**, Animal and Poultry Science, for a project on artificial insemination.

Prof. Trevor Smith, Nutritional Sciences, received \$15,000 from Shur-Gain to study the "Role of Dietary Polyamines in Animal Growth Promotion."

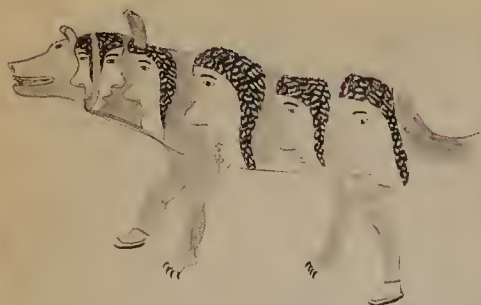
The Social Sciences and Humanities Research Council's (SSHRC) Aid to Occasional Scholarly Conferences program provided \$7,500 to **Prof. Kris Inwood**, Economics, to attend "The Urquhart and the Economic Past: The 19th Conference on the Use of Quantitative Methods in Canadian Economic History" in Montreal this spring.

SSHRC has awarded \$3,875 to **Prof. O.P. Dwivedi**, Political Studies, to attend a meeting of the International Association of Schools and Institutes of Administration Board of Management in Hong Kong in July.



OVC's Pet Trust Fund awarded \$2,000 to **Prof. Dale Smith**, Pathology, for "The PEG Tube: A New Method for Providing Supplementary Nutrition to Rabbits" and \$5,500 to **Prof. David Holmberg**, Clinical Studies, for his work on "Ultrasound-Guided Correction of Subvalvular Aortic Stenosis in the Dog."

Prof. Jim Bogart, Zoology, was awarded \$60,000 by the World Wildlife Fund-Wildlife Toxicology Fund to study the "Toxicological Effects of Agricultural Runoff on Ranid Frogs." □



Inuit drawings head to Baker Lake for tour

Going home. That's what 40 drawings from the Macdonald Stewart Art Centre's Inuit collection are doing this summer — heading home to the place where they were created, Baker Lake in Canada's Arctic. There, the centre will launch a two-year tour of the drawings that will take them across Canada and the United States.

This is the first time an international tour of Inuit art organized by a southern gallery has been officially opened in the North, says Judith Nasby, director of the Macdonald Stewart Art Centre. To mark the occasion, the Qamanituaq artists of Baker Lake decided to stage a three-day art symposium to coincide with the launch of the tour. The symposium runs Aug. 18 to 23.

The touring exhibition of Inuit drawings from the art centre's internationally recognized collection features works by 20 artists covering 30 years. The show is called "Where the River Widens," an English translation of Qamanituaq, the Inuktitut name for Baker Lake. The title reflects the connection among cultural influences in the creation of the Inuit drawings, Nasby says.

The art centre began collecting Inuit art 10 years ago with support from the Guelph company Blount Canada Inc. The centre decided to focus on drawings to be unique among world institutions collect-

ing Inuit art. Today, the Guelph collection contains about 500 drawings. It also includes some sculpture, prints, wall-hangings and clothing.

The sources of the art have been varied. Some were bought by Nasby directly from the artists or the arctic co-operatives that operate in the settlements. About 60 drawings were repatriated when they turned up at a New York City art dealership. Still others were gifts from art dealers and collectors across Canada.

The Baker Lake exhibition, which will be housed in the town's community centre, will provide a unique opportunity for the artists to see each other's works, says Nasby. Often their artwork is shipped immediately out of the community, rushed to southern markets before anyone in the community has a chance to see them.

The show and symposium will also give other residents of Baker Lake, a town of 1,200, a chance to share in the afterglow of their community's artistic success on the world stage, says Nasby. Ironically, many Baker Lake children don't know their parents are world-famous artists, she says.

The Macdonald Stewart Art Centre has organized the symposium in conjunction with the Baker Lake Historical Society. It will be attended by 30 gallery directors, curators, writers and col-

lectors from across North America. Originally designed for 15 people, the tour had to be doubled because of the interest it generated, Nasby says.

Participants will have a chance to meet with the artists in their homes to discuss their work and to experience first hand their way of life. They will taste foods cooked over a willow-twig fire and see the caribou clothing and traditional camps. Planned activities include a feast, drum dancing, lessons in Inuktitut, cultural performances, visits to local galleries and a special showing of student art at the

Ilitsijaqturvik school.

"To gain an understanding of the art, it's essential to try to make a connection with the artists, to experience the land and see how the community operates," Nasby says.

The Baker Lake show will come to the Macdonald Stewart Art Centre in spring 1995, then continue its tour across North America. The catalogue for the exhibition will contain interviews with the artists and a memoir by artist William Noah, one of the curators of the show.

Noah's family is one of many that faced starvation in the 1950s when they lived on the tundra. They were rescued and brought to Baker Lake for resettlement, where they later became involved in art and craft programs.

Before coming to Baker Lake, they had never used pencil and paper. The artists began recording their traditional spirituality and their lives with drawings. These were then used as resource material for the successful printmaking programs that have operated in various arctic settlements.

Over the decades, Inuit art has become one of Canada's best-known art forms, says Nasby. But those decades have also been a time of enormous change for the artists and their work. The Inuit have gone from being nomadic

hunters to living in the modern era.

Many senior artists have either died or are elderly and unable to create more art. Some younger artists have moved to the south. Their experiences are different from those of their grandparents. Some are beginning to make art commenting on social problems facing Inuit society and their own lives.

A new generation of artists is going in many directions, including work in video, says Nasby. And although the carvings and printmaking will continue, they will take on a new range of subjects, she says.

"But, then, art has to change to be a meaningful statement of these artists' lives and their view of the world."

The Macdonald Stewart Art Centre is currently featuring another exhibition of Inuit art. "Northern Lights: Inuit Textiles from the Canadian Arctic" includes more than 30 Inuit wall-hangings, as well as two parkas made early in this century.

An international travelling exhibition from the Baltimore Museum of Art, "Northern Lights" will be at the art centre until July 17. □



The Macdonald Stewart Art Centre's collection of Inuit drawings include, top left: *Story* by Simon Tookoome; top right: *Boy with Dog* by Janet Kigusiaq; and bottom: an untitled work by Kigusiaq.

OUR COMMUNITY

NOTICES

The gift of life

The Red Cross will hold a blood donor clinic July 4 from 10 a.m. to 3:15 p.m. in Peter Clark Hall. All types of blood are needed. The Red Cross notes that the interval between giving donations is now 56 days.

Agri-food directory

The Agri-Food Network has released its 1994/95 *Contact Directory to Ontario's Agri-Food Industry* and a brochure on its speakers' bureau. The directory is a comprehensive catalogue of 400 associations, boards, companies and government agencies associated with the agri-food industry. The brochure lists 56 speakers

who can address audiences about the agri-food area. For copies, call the network in the Research Park at 767-5008.

Farm leader honored

The Wellington County Historical Society will unveil a plaque in recognition of farm leader J.J. Morrison July 2 at 1:30 p.m. in Arthur. Morrison was a founding member of what are now the Ontario Federation of Agriculture and the United Co-operatives. Prof. Terry Crowley, History, will speak on Morrison's life and career following the unveiling.

Theatre camp

U of G drama students Sam Hancock and Cathie Webb are offering a theatre program for children aged seven to 13 this summer. Now in its fourth year, the Beyond Tomorrow Theatre Workshop aims to introduce children to all aspects of theatre, including play-writing, clowning, voice, design and puppetry. Four two-week sessions will be offered, beginning July 4. Workshops run Monday to Friday from 9 a.m. to 3:30 p.m. in Massey Hall. New this year is an

evening acting workshop for ages 13 to 18. Cost is \$180 for the day program and \$100 for the night class. For more information, call Hancock at Ext. 79193 or Webb at 821-7749.

Printmaking workshop

Guelph fine art graduates Sue Daugherty and David Mutton will lead a workshop called "Explorations in Printmaking" July 24 to 29 at Hemlock Grove near Parry Sound. The program is designed as an artistic retreat. For details, write to Hemlock Grove, P.O. Box 6, Guelph N1H 6J6.

Strawberry social

The Wellington County Museum and Archives will hold a strawberry social June 26 from noon to 4 p.m. The social will feature a live concert in the Victorian garden

from 1 to 3 p.m. and a special display of collections. Admission is \$1 for adults and \$2 for a family. For more information, call the museum at 846-0916.

New editions

The Association of Commonwealth Universities has released the 1994 editions of the *Commonwealth Universities Yearbook* and *Checklist of University Institutions in the Commonwealth*. They are available from the Association of Universities and Colleges of Canada, 350 Albert St., Suite 6000, Ottawa K1R 1B1.

CIBC counter to close

The CIBC's cash-less service counter in the University Centre will close permanently June 30. The bank will continue to lease the counter space for several months

and may reopen it for two or three weeks in September for account opening and issuing instant teller cards. The five full-service instant teller machines and the update machine will remain open 24 hours daily. □

Correction

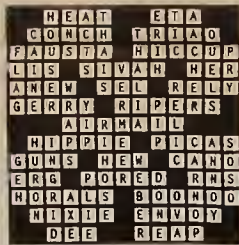
In the June 15 *At Guelph*, an incorrect date was given for the Woodlawn Cemetery's upcoming Decoration Day commemoration. The correct date is June 26. Walking tours at 11:30 a.m. and 2:45 p.m. will honor the men and women who have served the cemetery in some capacity over its 140-year history. □

Obituary

Donald Smith of Guelph, who was employed as a driver in Mail Services, died June 19 following a short illness. He was 51.

Mr. Smith worked for Mail Services since starting at the University in 1974. Predeceased by his wife, Margaret, he is survived by two sisters, Barb Tripp of Elmville and Gayle Williams of Fergus.

Memorial contributions to the Canadian Cancer Society or Wellington Hospice would be appreciated. A tree will be dedicated in his name in the Wall-Custance Memorial Forest in the Arboretum Sept. 25 at 2:30 p.m. □



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Three-bedroom townhouse with ensuite, 2 1/2 baths, den, garage, deck, appliances, central air, close to schools and university, available Aug. 20, single family, references required, \$1,350 a month inclusive, Ext. 8550 or 8552 or 836-2714, call after June 27.

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Three-bedroom lakefront cottage on inland lake on Bruce Peninsula, July and August, Ext. 2188 or 836-1397.

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Roller blades, adult size eight; vertical blinds, white, approximately 10 feet by eight feet, Ext. 2366 or 763-4409 evenings.

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Alphabetical dividers for three-ring binders; five three-ring binders, Ext. 2965 or 821-5502.

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Classifieds is a free service available to staff, faculty, students and alumni of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham on Level 4 of the University Centre. For more information, call Ext. 6581.

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City of Guelph

GORDON STREET TRANSPORTATION CORRIDOR ENVIRONMENTAL STUDY REPORT

Between Wellington Street and Stone Road

NOTICE OF COMPLETION

The study undertaken to review the capacity and safety of the Gordon Street corridor between Wellington Street and Stone Road has been completed. The recommended alternative for the reconstruction consists of one lane of traffic in both directions south of the Speed River, one bicycle lane in each direction and sidewalks on both sides of the street along the entire length of the corridor. Additional left-turn lanes will be provided on Gordon Street at Albert Street, James Street, Forbes Avenue, Dornie Lane and University Avenue and at the University of Guelph's McGillivray Street and P-2 parking lot entrances. At the intersection of College Avenue and Stone Road additional right-turn lanes and additional through lanes will be provided, along with additional right-turn lanes on College Avenue and Stone Road approaching Gordon Street. At the University of Guelph's South Ring Road additional left-turn lanes and through lanes will be provided on Gordon Street.

The recommended alternative is a Schedule A project under the Class Environmental Assessment (Class EA) for Municipal Road Projects. The project is unconditionally approved in the City of Guelph, cannot be "bumped" up to a Schedule B or C project or an individual environmental assessment and may proceed to implementation. The Study was carried out in accordance with the Class EA Process in order to evaluate several alternatives, some of which were classified as Schedule C projects.

The final report can be viewed at the City Engineer's Department, 2 Wyndham Street North, 3rd Floor, Guelph, Ontario.

The recommended alternative for the reconstruction of Gordon Street will be constructed in phases commencing this year.

For further information, please contact:

D.M. Kudo, P.Eng.
Project Engineer
City of Guelph
2 Wyndham St. N., 3rd Floor
Guelph, Ontario N1H 4E3
Telephone: (519) 837-5604



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CALENDAR

FRIDAY, JUNE 24

Biomedical Sciences Seminar - Silvia Delgado, a visiting scientist from Cuba, considers "A Study of GMG Cells and Apoptosis" at noon in OVC 1642.

Cycling Club - A 25-kilometre off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, JUNE 26

Cycling Club - A 50-km swim ride to Elora Gorge/Fergus leaves from the UC south doors at 10 a.m.

Arboretum - School is out, so bring your children on this hike to explore colors in the Arboretum. In addition to the walk, there will be an arts and crafts session with all supplies included. Meet at 2 p.m. at the nature centre.

TUESDAY, JUNE 28

Animal and Poultry Science Seminar - Graduate student Alfred Archer talks about "The Accuracy of Predicting 305-Day Yield Using Different Methods of Determining Daily Yields" at 11:10 a.m. in Animal Science 306.

Cycling Club - A meeting begins at 7 p.m. in Athletics Centre 203.

WEDNESDAY, JUNE 29

Biochemistry Seminar - Iain Lambert of Carleton University discusses "Mechanisms of Carcinogen-Induced Frameshift Mutations" at noon in MacNaughton 222.

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Cycling Club - A 27-km novice swim ride to Rockwood leaves from the UC south doors at 5 p.m.

THURSDAY, JUNE 30

Pathology Seminar - Graduate student John Copps discusses "The Roles of NK Cells and CD8+ T Cells in the Immune Response to Pneumonia Virus of Mice in SCID Mice" at 11:10 a.m. in Pathology 2152.

FRIDAY, JULY 1

Cycling Club - A 25-km off-road ride leaves from the UC south doors at 5 p.m.

SATURDAY, JULY 2

Cycling Club - A 180-km week-end ride to Wasaga Beach leaves from the UC south doors at 10 a.m.

SUNDAY, JULY 3

Cycling Club - A 30-km swim ride to Cambridge Loop leaves from the UC south doors at 10 a.m.

TUESDAY, JULY 5

Animal and Poultry Science Seminar - Graduate student

Konrad Kulak offers an "Evaluation of Lifetime Profitability Measures and Their Relationships to First Lactation Traits in Holstein Cows" at 11:10 a.m. in Animal Science 306.

WEDNESDAY, JULY 6

Biochemistry Seminar - Jon La Marre discusses "The α_2 -Macroglobulin Receptor/LRP: Modulation of a Multifunctional Receptor Complex" at noon in MacNaughton 222.

Cycling Club - A 29-km novice ride to Maryhill leaves from the UC south doors at 5 p.m.

WORSHIP

Catholic mass is celebrated Sundays at 10:10 a.m. in the School of Landscape Architecture lobby.

Multifaith calendar

In Zoroastrianism, June 29 to July 3 is Ghambar Maidyoshem, celebrating the creation of water, the sowing of the summer crop and the harvesting of grain.

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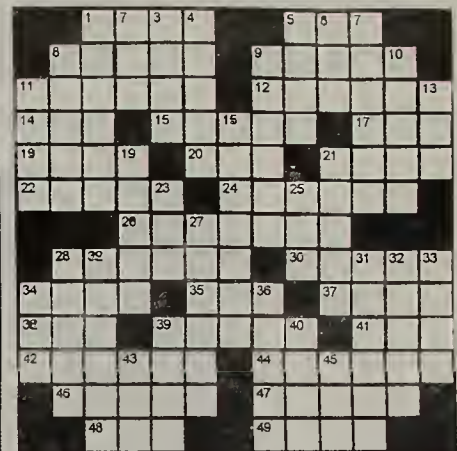


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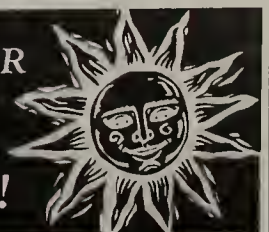
1. Stew ingredient
5. Greek vowel
8. Triton's trumpet
9. Group of three
11. Constantine's wife
12. Diaphragm sound
14. Fleur-de-_____
15. Hebrew month
17. That girl
18. Do over again
20. French salt
21. Count on
22. _____ and the Pacemakers
24. Matures
26. Flying letters?
28. Beatnik
30. 12-point type sizes
34. "Young _____" (Estevez movie)
35. Gull
37. Spanish painter
38. Unit of work
39. Read over carefully
41. Hospital workers: abbr.
42. Social standards
44. Weep loudly
46. Germanic

DOWN

13. Use a crowbar
15. Dutch painter
19. Covers with paper
21. Memento
23. Shill bark
25. Die spot
27. Full of fissures
28. Great Lake
29. Actress Bergman
31. Drive-in waitress
32. Bedevil
33. Passable
34. Jewel
36. Magnetic flux unit
39. Ballet exercise
40. Finished
43. Hewing tool
45. Eggs

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solution, see page 10.

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FOCUS

First master of fine arts grad paints himself into a career

by Maurice Oishi
University Communications

Even before his graduation this month, David Urban had sketched out an auspicious debut for himself and U of G's new master of fine arts program.

Urban, the first graduate of the program, exhibited his thesis project at the Sable/Castelli Gallery in Toronto. His show of 11 paintings was hailed by the *Globe and Mail* as "the emergence of a remarkable new Canadian talent, already extending and deepening the history of abstract painting in this country."

High praise for a young artist. And well deserved, says Prof. Margaret Priest, graduate co-ordinator in the Department of Fine Art. "We will certainly hear from him as an artist in this community, but most likely at an international level as well," she says. "He knew exactly what he wanted to do. He used the department, the program and the University in exactly the appropriate manner."

Getting the most out of his MFA was important for Urban. In choosing Guelph's program, he considered two factors. "It guarantees some teaching experience, which sets it aside from other programs. Plus there were some people I really wanted to work with, like Margaret Priest and Ron Shuebrook."

The program lived up to his expectations and went beyond them, he says. "I think one of the things that made the program really good was that we all came in as a group (when the program started) and shared information and resources. There was a real cross-pollination. I hope the program can sustain this."

Eight students are enrolled in the MFA program, with another four expected this fall. A big plus of the program is the interaction it allows between students and professional artists, critics and dealers, Priest says. Fine art faculty have accomplished this by tugging on the "friends of friends network" to bring these professionals to campus, she says.

For dealers, artists and critics, participation in the program gives them an opportunity to see emerging talent as it reaches full bloom,



Zavitz Hall has been home to David Urban for the past two years while working on his master of fine arts.

Photo by Maurice Oishi, University Communications

says Priest. "That's why I tell students to seize this opportunity because it will never come like this again."

Urban's initial success is a case in point. Jared Sable, owner of the gallery where Urban exhibited, visited campus last year when his friend Betty Goodwin received an honorary degree.

Through other faculty contacts, MFA projects will be part of an upcoming exhibit at Toronto's Gallery Moos July 2 to Aug. 3. Priest hopes such events will become a regular event.

For the program, every critique

and graduate exhibit is a test, she says. After she's asked her peers to visit Guelph and critique students' work, "I'm in danger of being taken less seriously both as an educator and an artist if I have nothing to show them. But these students are worth it."

Urban is unabashed in his praise of the program and the faculty. "Thanks to the University of Guelph, I'm making a living out of painting," he says. His show at the Sable/Castelli Gallery was a sell out, and he's just sent off paintings for an exhibit in Amsterdam. □

Nomination deadline nears for Community Service Award

The Central Student Association (CSA) seeks nominations for its 1994 Community Service Award.

U of G students, faculty, staff and graduates are eligible for the award, which recognizes people who have voluntarily given their time, energy and loyalty to the University community.

Nominations can be made by past or current members of the University. The deadline for

nominations is June 30 at noon in the CSA office in Room 273 of the University Centre.

The winner of the award will be recognized at the 20th annual Community Barbecue July 14. For more information or a nomination form, drop by the CSA office.

The Community Barbecue committee is still looking for volunteers to help with the event. Call Ext. 6748 or sign up at the CSA office. □

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FIRST GLANCE

Racism report published

The final report of the President's Task Force on Anti-Racism and Race Relations is now available. The 15-page document recommends actions, including adoption of a policy and complaints procedure for racial discrimination and harassment. It also provides an analysis of racism on which the task force based its recommendations.

Copies can now be picked up at the offices of the Central Student Association, Graduate Students' Association, U of G Faculty Association, vice-president for student affairs, employment and educational equity director and the human rights adviser. If you wish to receive a copy by mail, call Ext. 4296.

The report will be distributed again at the beginning of the fall semester.

Inside:

Rural studies PhD
approved 3

Health plan for
international students
begins July 1 3

Stop the paper flow! . . . 3

Six named to Board
of Governors 4

Children's literature is
not just for kids 5

Included with this issue
of *At Guelph* are the
Bookshelf's Off the Shelf
and a flyer from the
Woolwich Arms.

Thought for the week

*Nothing so needs reforming
as other people's habits.*

Mark Twain



A fan for all seasons

Loud, proud and wearing his trademark beanie, Dino "Superfan" Scrementis is a fixture at campus sporting events, cheering the Gryphons on. He's also assistant manager at the Gryphs Sport Shop. Find out what makes him run on page 8.

Photo by Maurice Oishi, University Communications

Indonesian government ends Sulawesi Project

U of G's contract under the Sulawesi Regional Development Project (SRDP) is ending nine months ahead of schedule at the request of the Indonesian government. Academic vice-president Jack MacDonald told Senate June 28 that the government of Indonesia has decided to close the project and has asked the University to withdraw from the country by July 20.

"We have been given no official reason," said MacDonald, "although it seems clear that the government of Indonesia's decision was political, prompted by the University's report on the project last fall — which criticized that government — and the continuing debate in the University."

On May 17, the Senate Committee on International Activities (SCIA) presented Senate with its response to the external reviewers' report. SCIA made 17 recommendations on im-

proving policies and procedures for future international projects and said Guelph should continue its involvement in SRDP until project completion.

On May 18, the Canadian International Development Agency (CIDA) told Guelph that the Indonesian government had just informed the Canadian Embassy in Jakarta that the project must be terminated soon. Guelph worked closely with CIDA to see if the Canadian government could help arrange a logical and organized conclusion to the project and Guelph's involvement.

According to a CIDA representative, "the decision by the government of Indonesia is unfortunate given the importance of this project and the benefits to the Indonesian people, and

See SCIA on page 4

Program changes reflect thinking in strategic vision

A redesigned B.Sc.(Agr.) degree program and an open-learning system through Distance Education, both approved by Senate June 28, represent the kind of strategic thinking that is going on across campus in this academic year.

The Strategic-Planning Commission's (SPC) draft strategic vision paper, "Framing the Choices," identifies the need to educate students for life and work in a rapidly changing world. The curriculum in the B.Sc.(Agr.) program, Vision '95, and the open-learning system respond to these central themes.

Vision '95 aims to go beyond graduating students who are technically competent and who have a comprehensive understanding of the food system. They will have the personal qualities required of future professionals — an understanding and ability to deal with moral and ethical issues, communication abilities, analytical and problem-solving skills, the ability to work in teams, computer skills and the ability to resolve conflict.

The program will be implemented in September 1995. Enrolment of first-year students is expected to be between 150 and 170 a year. Admission requirements will be similar to current ones, but there will be emphasis on entering students having high school competence in chemistry and biology.

The new curriculum will also encourage students to become lifelong self-directed learners — also a hallmark of SPC's draft vision paper. The curriculum is less structured, and students will have more responsibility for developing their schedule of studies.

A counselling system consisting of a program counsellor and five department-based major advisers will be established to support students in their academic and career planning. Students will also be involved in co-operative group learning activities and multidisciplinary courses that integrate the teaching activities of individual faculty and departments.

Students will be encouraged to gain work experience in externship or co-op programs and to participate in international study programs.

Professional-development support will be provided to faculty to help them teach the new curriculum, particularly in the University's learning-objective areas of communications, problem solving and developing personal skills. OAC Dean Rob McLaughlin told Senate that the college dean's council and the OAC Alumni Foundation will sponsor workshops in help from Teaching and Support Services.

Open-learning system

Lifelong learning and distance education are high-growth areas also identified internally in 1991 by the Task Force on Lifelong Learning and in 1992 by the Spring Semester Committee.

The new and separate open-learning program delivered through Distance Education responds to the needs of mature and non-traditional students whose educational goals don't depend on completion of a degree, but who are working towards certificates or diplomas that do require credit courses.

The program is well suited to people who prefer to work independently, off-site and anonymously. The program also fosters skills associated with independent learning, provides flexibility in scheduling and workloads and accommodates those with job and home commitments.

Senate supported the new system, providing it is self-financing and there is co-ordination among neighboring universities in the design and delivery of courses.

Editor's note: Watch for further stories on these two programs this fall in *At Guelph*. □



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by David Weisglass
Gordon Coomans

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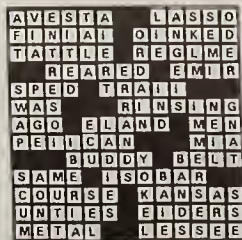
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GRAD NEWS

The final examination of Joan Hildebrand, an M.Sc. candidate in the division of applied human nutrition in the Department of Family Studies, is July 4 at 10 a.m. in the Marriage and Family Therapy Centre. Her thesis is "Dietary Fat Intake, Blood Lipids, Growth and Body Composition Among East Indian Vegetarian and Caucasian Omnivorous Children." Her adviser is Prof. Nina Mercer.

The final examination of Kira Ferguson, an MMS candidate in the School of Hotel and Food Administration, is July 6 at 10 a.m. in Room 733 of the FACS Building. Her thesis is "An Examination of Security as Hotel Choice Criterion by Conjoint Analysis." Her adviser is Prof. Margaret Shaw.

Interested members of the University community are invited to attend. □



AT GUELPH is published by the University of Guelph every Wednesday except during December, July and August, when a reduced schedule applies. *At Guelph* is guided by an editorial policy and an editorial advisory board. The policy is available on request at Ext. 3864.

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At Guelph headlines top stories and coming events can also be accessed on GRIF. Offices: University Communications, Level 4, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Telephone: 519-824-4120, Fax: 519-824-7962. Office hours: 8:30 a.m. to 4:45 p.m.

LETTERS

Student contributions to racism report applauded

I wish to respond to the letter from Min Kaur published in the June 22 issue of *At Guelph*.

I agree that the student members of the President's Task Force on Anti-Racism and Race Relations should be recognized. In fact, I have been effusive in my thanks to all members of the task force, in accord with my appreciation for the time and effort that was expended on both the interim and final reports by the group, particularly the student members.

I held a reception for the task force at my house, where the contribution of the student members was singled out. I thanked them specifically at a meeting we held to discuss release of the report and also at Senate. An article appeared in *At Guelph* April 13 in which the task force's work was noted, again with special mention of the students' contribution.

I will go on record here reiterating what has been said many times — members of the task force accomplished a much-needed task at the expense of their other personal goals because of their dedication to making this a campus free from racial harassment and intolerance, and I recognize and applaud their efforts.

It would, however, have been remiss of me not to recognize Janet Kaufman's contribution to the work of the Employment and Educational Equity Office and to the promotion of human rights on

campus generally, particularly at the time of her stepping down from office. Due praise for a departing employee should not be confused with my sentiments about the value of the task force's work, which I have expressed on many occasions.

The letter in the June 8 issue of *At Guelph* had other purposes as well. It aimed to give members of the community a progress report on consideration of the work of the task force, for which credit was again given.

By thanking the outgoing director, I intended no slight to the human rights adviser — quite the contrary. I appreciate the role

played by the adviser and have told her so, in my office and in hers.

The June 22 issue of *At Guelph* notes that release of the task force report initially was delayed to carry out editorial work approved by the task force.

There was agreement by all on the task force that the final report would be published as an insert in *At Guelph* and the *Ontario* as soon as students returned for the fall semester. In the meantime, copies of the report have been made available to all who wished one. These copies were accompanied by a letter from me thanking the task force, particularly the stu-

dent component, for its work. Board of Governors received the report at its June 22 meeting at the request of the task force.

I have convened a working group — as recommended by the task force — to advise me on a human rights organizational structure and a process for further discussion of the report and its recommendations.

To conclude, I believe the contribution of task force members to the life of the University has been sincerely recognized. And I know the report will continue to receive the careful attention of the University community.

President Mordechai Rozanski

What are we doing to ourselves?

When I left U of G more than two years ago after nearly 20 years, I was saddened by the palpable air of unhappiness that had emerged on campus over the preceding two or three years.

My Guelph contacts since then have been almost exclusively with friends, so the tone of the exchanges has been inevitably friendly and positive or, at the very least, characterized by a kind of black humor that tries to make the best of a difficult situation. Time was beginning to do what it does best and blunt my memories of widespread unhappiness.

It has all been brought crashing back in recent weeks by the letters to *At Guelph* from Prof. Mike Brookfield and student Min Kaur.

I am personally acquainted with more than one of the individuals who were moving forces behind the report being attacked by Brookfield, and I enjoyed a long professional relationship with Janet Kaufman.

To a person, I rank them in the upper percentiles among my acquaintances as logical, intelligent, balanced, humanitarian thinkers driven by the need to do what is ethically and morally right. That

they, among all others, should be the targets of this kind of destructive nastiness quite takes my breath away.

Colleagues, what are we doing to ourselves? What ever is to be gained by venting our frustrations at a world gone wild by attacking the few among us still willing to try to make right some corner of it?

Said Benjamin Disraeli: "It is much easier to be critical than to be correct."

Virginia Gillham
Guelph

Considerable good can come from strategic planning

I read with interest Prof. Usher Poslusny's June 15 account of the history of coaching at U of G. One fact was incorrect. I was the founder and first director of the School of Human Biology, not retired professor John Powell.

Senate approved the title of "human biology" in 1978, following a substantial amount of work by me and my colleagues. The first graduates of the B.Sc. program in human biology and the first M.Sc. graduates convoked around that time. I was director and chair in the School of Physical Education and School of Human Biology between 1975 and 1980.

Incidentally, the changes to the School of Physical Education over that period could constitute a microcosm of the operational translation of many of the principles now being advanced in "Framing the Choices," the draft discussion paper from the Strategic-Planning Commission. These include the unifying themes,

structural reorganization, effective budget management, accountable workloads, selection of continuing faculty on the basis of satisfactory research, teaching and service work, and continuing support staff on the basis of effective support of departmental missions.

The changes in the School of Physical Education, some of them emotionally difficult and stressful, form a significant part of the foundation on which rests the suc-

cessful performance of the school's two successors — the Department of Athletics and the School of Human Biology.

The former gives us an excellent cost-effective physical activities program at intramural and inter-collegiate levels as part of student services.

The latter recruits the largest group of honors science students at U of G, has a strong cohort of PhD and M.Sc. students, is well supported by research agencies

such as the Natural Sciences and Engineering Research Council, and provides considerable service to the University and the broader community.

So, take heart and find the strength to get the current planning discussions right. The good to come out from the strain can be considerable.

Prof. John Brooke
School of Human Biology

Vision paper requires reasoning, fact

The Strategic-Planning Commission's draft discussion paper adopts as its theme the goal of a "learner-centred university." But the paper's rhetoric seems at odds with its actual content.

For example, it recommends "reducing faculty substantially" and "reducing course offerings by 25 per cent." This entails fewer

faculty teachers and fewer courses for students. How is this "learner-centred?"

The report also strongly insists on "performance criteria" and "focusing on what is actually happening for the learner." But nowhere does it question the current student opinion-survey method of evaluating teaching, which meas-

ures neither "learning performance" nor "what is actually happening for the learner."

Perhaps we need more attention to reasoning and fact in these "strategic visions" than appeal to feel-good slogans.

Prof. John McMurtry
Philosophy

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Please Recycle



North York student Daniel Foisy took top prize at U of G's annual software-development contest. Photo by Maurice Oishi, University Community

He's got the right byte

Daniel Foisy of Brebeuf College High School in North York was named grand champion in U of G's ninth annual software-development contest. He won for DSP, a 3-D wire-frame graphics tool. His prize was a \$2,000 fellowship to study at Guelph and \$500 in cash.

Top female winner was Christine Chan of A.Y. Jackson Secondary School in North York for WizCalc, a Windows calculator. Top male winner was Robert Burke of Saint Andrew's College in Unionville for 3-D World, a graphics game in three dimensions. Both students received a \$1,000 fellowship and \$250 in cash.

The award of merit went to Cory Gendron of Northern Secondary

School in Sturgeon Falls for E-mail, an electronic mailing system for schools. He won a \$500 fellowship and \$125 in cash.

Awards chosen by the students went to Joanna Karczmarek of Vaughan Secondary School in Thornhill and David Huynh of Pope John Paul II Secondary School in Scarborough. They each received \$50.

In addition to U of G, sponsors of the contest are Alumni Computer Group Ltd., Waterloo Maple Software, Connect Tech Inc., Honeywell Limited, McGraw-Hill Ryerson Ltd., John Wiley and Sons Canada Ltd., Unisys and staff of Bell Sygma Telecom Solutions. □

Paper flood under microscope

The flood of paper on campus will come under intense scrutiny in the coming months at the urging of the waste and inefficiency (WIN) committee. A recurring theme in submissions to the committee was paper waste, inefficiency and irritation associated with bulk mailings on campus.

A committee on campus information distribution, chaired by Mary Cocivera, director of University Communications, will explore specific alternatives to bulk mailings, investigate electronic and other paper-less ways to communicate, and develop a plan to educate and enlighten the University community.

It may, for example, be just as effective to provide one or several copies of a report to a department, rather than sending one to each employee, says Cocivera. Departments may be asked to establish a specific area for posting notices instead of putting one in each mailbox. Notices to students could perhaps be posted in mail areas rather than put in boxes, she says.

Some alternatives that will be considered include using *At Guelph* for ads and flyers, e-mail for those who can receive it and GRIFF, Guelph's

campus-wide electronic information system.

"The key will be to develop alternative communication methods without jeopardizing information flow on campus," says Cocivera. "We hope to start to change the campus culture to embrace electronic means of communication and other paper-reducing strategies. And we hope this can be brought about through persuasion and not through dictate. We won't put up barriers to communication."

In addition to Cocivera, the paper-flow committee consists of Mary Barbour-MacIsaac, Human Resources; Doug Blain, Computing and Communications Services; Garry Round, Hospitality and Retail Services; Prof. Peter Brigg, English; Lesley Isaacs, Central Student Association; Nancy Clendenning, Office of the Associate Vice-President, Academic; Ruth Gillespie, U of G Library; and Nancy Schmidt, Counselling and Student Resource Centre.

The group welcomes suggestions and comments. Talk to one of the committee members or send written comments on e-mail to Cocivera at incociver@exec.admin.uguelph.ca. □

Canada's first rural studies PhD gets nod from graduate council

An obvious fit for U of G, a new doctoral program in rural studies addresses a long-standing opportunity for the University, says Prof. Doug Ormrod, dean of graduate studies.

The program, which received approval from the Ontario Council of Graduate Studies last week, is the first of its kind in Canada. In developing the program, the University sought out other graduate programs in North America to act as models, says Ormrod. The results of that survey showed there were 76 programs in urban studies, but only one in rural studies.

"This shows the enormous disparity in the attention given by universities to rural and urban communities," he says. U of G "should have a major responsibility for this area of study, given the expertise to be found in our departments and schools."

Rather than strictly equating rural communities with agriculture, the PhD program will embrace an interdisciplinary approach, says Prof. Mark Waldron, Rural Extension Studies, who has been co-ordinating development of the program. Looking beyond the bread-basket attitude of urbanites,

it will look at the social and economic dynamics of rural communities, he says.

"For today's rural society, we have to help people learn to debate and propose solutions on the basis of being firmly rooted in a discipline and being able to extend the debate to people from other disciplines. Rural communities are really multidisciplinary by nature and reality."

The PhD program will mine campus resources in OAC, FACS and the colleges of Arts and Social Science. For some academic units, such as the University School of Rural Planning and Development, the School of Landscape Architecture and the departments of Sociology and Anthropology and Rural Extension Studies, it represents the first foray into PhD-level studies.

Complex issues

OAC associate dean Bruce Stone says the program comes at a propitious time. Formerly isolated rural communities face new challenges from the outside world, ranging from globalized markets to environmental concerns. Now, these communities are hard-wired into the broader world. "The issues facing these communities are complex and require an interdisciplinary approach," he says.

At the same time, public agencies are taking a closer look at these communities in transition, says Stone. The Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA), for instance, has taken rural affairs under its mandate. In addition, the new program complements a U of G/OMAFRA initiative in the ministry's restructured agreement—a new research program targeted at sustainable rural communities.

The PhD program is broad in its scope, says Waldron. It will embrace all non-urban areas from a global perspective, not just rural agrarian communities.

The program will involve 28 faculty members and is expected to admit its first students in September, he says. □

International student health plan begins July 1

A new university health insurance plan (UHIP) for international students and workers who are losing OHIP coverage June 30 goes into effect July 1.

The UHIP arrangement, which the Council of Ontario Universities helped establish, involves W.M. Mercer Ltd. as the consultant, Ontario Blue Cross as insurer

and Welton Beauchamp Nixon as administrator, says Brian Sullivan, associate vice-president for student affairs.

All international students and workers, their spouses and dependent children must register for UHIP unless they can show acceptable alternative coverage.

Exemptions are allowed for those covered by the health plans of the Canadian International Development Agency, Canadian Bureau for International Education, the Canadian Commonwealth Scholarship and Fellowship Plan or the Ontario/Baden-Wuerttemberg exchange program, says Manori Edwards, acting international student adviser.

But exempt students must still complete and sign a UHIP application form stating coverage under these optional plans, she says. The UHIP plan provides health-care benefits comparable with those provided by OHIP, with some limitations. Lifetime maximum is \$1 million per person.

Continuing graduate students should register for the fall semester immediately, pay their tuition fees and fill out a UHIP application form. If possible, they should register in person at Graduate Studies on Level 4 of the University Centre.

For coverage from July 1 to Dec.

31, 1994, the cost is \$267.84 for a single student, \$535.68 for a student with one dependant and \$847.80 for a student with two or more dependants, says Edwards.

For new graduate students registering this fall, coverage for the fall semester is \$178.56 for a single, \$357.12 for one dependant and \$565.20 for two or more.

For more information, graduate students should call Graduate Studies at Ext. 3481 or 6740.

Continuing undergraduate students must register immediately for July and August UHIP coverage. This can be done at the office of the international student adviser on UC Level 4.

Cost of July and August coverage is \$89.28 for a single, \$178.56 for one dependant and \$282.60 for two or more. For more information, these students should call International Education Services at Ext. 3954.

When undergraduate students register for the fall semester, they will pay their health insurance fees for September to December along with their tuition fees. For more information, undergraduates are advised to call the Registrar's Office at Ext. 2876.

Edwards says international workers requiring UHIP coverage should call Human Resources at Ext. 3374 and ask to speak to a

benefits service assistant. Some employees may be eligible for payroll deduction.

Meanwhile, university and student organizations on and off campus continue to lobby to have OHIP coverage reinstated for international students and workers currently in Ontario, she says. According to the Coalition for International Students, more than 2,000 appeals have been filed, and each must be heard by law.

The Ministry of Health (MOH) has confirmed that OHIP coverage may be extended to international workers who are here for the primary purpose of working temporarily for a named employer and if their work authorization falls into the appropriate case type number, says Edwards. MOH offices are dealing with these cases individually. For appeals, the ministry requires an original immigration document, passport, OHIP card and proof of residency.

The MOH in Kingston has confirmed in writing that former students on one-year postgraduate employment authorizations may be eligible for OHIP coverage, but some MOH branches are still refusing coverage to this group, says Edwards. She will provide a copy of the letter from the Kingston MOH to anyone who needs it for an appeal. □

Community Barbecue gets cookin'

The 20th annual Community Barbecue runs July 14 on Branion Plaza. Activities for the whole family kick off at 4 p.m., with dinner starting at 5:30 p.m. On the menu this year are beef dinners (\$7.50), veggie burgers (\$6), beef burgers (\$6) and children's meals (\$3).

The Community Service Award will be presented after dinner. Entertainment will include the Twilites, And Then Some and Seeding Like Butterflies.

Tickets are available at the Central Student Association office on Level 2 of the University Centre and in the UC courtyard beginning July 7. □

Five named to U of G Foundation

The University of Guelph Foundation, a Crown agency, is now active. Chaired by Chancellor Lincoln Alexander, the board consists of Consuelo Allen of the Ministry of Consumer and Commercial Relations, OAC graduate Maureen Higa of the Ontario Ministry of Agriculture, Food and Rural Affairs, former B of G chair Jim Hunter and former U of G president and OAC graduate Burt Matthews.

The foundation will provide substantial income-tax relief to donors. It's expected that donations will flow through the foundation to U of G and be applied in accordance with a donor's wishes.

The foundation will help U of G enhance its fund-raising initiatives, says Don Stephenson, manager of bequests and planned giving in University Af-

fairs and Development. Previously, donors were eligible for tax credits of up to 20 per cent of their taxable income. This effectively put a ceiling on how much a donor might contribute to a university. Now, gifts and donations worth up to 100 per cent of a donor's income are eligible for credits.

Ontario's provisions for Crown foundations are intended to foster private support, says Stephenson. The foundation is a vehicle for tax planning that meets donors' financial needs while encouraging their philanthropy, he says.

The directors of the U of G Foundation were appointed by the minister of education and training from a list of recommendations submitted by the University. □



Lincoln Alexander



Maureen Higa



Burt Matthews



Jim Hunter



Consuelo Allen

Medical Research Council adjusts programs to support broader scope

The Medical Research Council (MRC) is broadening the scope of activities it funds beyond a biomedical and clinical focus to support a greater range of health research. It is also encouraging multidisciplinary and collaborative projects.

The council will hold two competitions a year for both new and renewal operating, equipment and maintenance grants — Sept. 15 and March 15. Applicants will be notified in mid-January and early July, allowing time for unsuccessful applicants to reapply within a few months. There will no longer be a renewal date of Nov. 1.

Application forms are being revised, and only the new versions will be accepted.

Salary support programs

The MRC has also expanded its salary support. Effective July 1, the council will offer four levels of support:

- **MRC scholarship** — for investigators within two years of their first academic appoint-

ment. The award is up to \$50,000 a year plus fringe benefits.

- **MRC scientist** — for investigators with four to eight years of independence who have shown outstanding ability and promise of becoming leaders in their field. This award is up to \$60,000 a year plus fringe benefits.

- **MRC senior scientist** — for scientists with nine to 14 years of independence who have shown exceptional merit and are leaders in their field. The award is \$50,000 a year with no fringe benefits.

- **MRC distinguished scientist** — for highly renowned scientists with 15 to 20 years' experience who are at the forefront of health research and are world leaders in their field. The award is \$50,000 a year with no fringe benefits.

Because of budgetary constraints, the MRC's 1994/95 salary contribution will be the same as last year's.

Program cancellations

Visiting scientist, visiting professorship and travel grants have been cancelled. Program grants have been combined with the MRC group grant, which now encompasses all collaborative research.

MRC fellowships offered with Glaxo Canada Inc., Zeneca Pharma/University of Toronto and Unisource Canada/Alzheimer Society of Canada are on hold.

Studentship program

Studentships are offered to graduate students engaged in full-time health research training. Applications are to be made by the supervisor, not the student.

Researchers seeking to train an MRC student must submit their request to nominate one or more students as part of their application for an operating or group grant or as part of their progress report during a grant. The student does not need to be named at the time of the application. □

Deadlines in the Office of Research

Applications are due in the Office of Research July 6 for proposals to the Canadian Association of Animal Breeders.

July 22 is the deadline to submit applications for grants-in-aid from the Canadian Diabetes Association's Charles H. Best Fund and for Health and Welfare Canada's Career Award. □

New members to join Board of Governors

Board of Governors approved six new appointments at its June 22 meeting. The appointments are effective July 1.

Beverly Mascoll, president of Mascoll Beauty Supply Ltd. in Toronto, was appointed on a lieutenant-governor order-in-council for a three-year term. Mascoll has also served on the boards of the Ontario Science Centre, Festival of Festivals and Ontario Black History Society.

A second lieutenant-governor order-in-council appointment will be announced by Queen's Park at a later date.

John Oliver, president of DowElanco Canada Inc. in Newmarket and a 1961 graduate of OAC, is a board appointment for a three-year term. DowElanco, which produces and markets a wide range of crop-protection technology across Canada, completed a \$75,000 pledge to the Bovey Building in 1993.

The faculty/Senate appointment for a three-year term is Prof. David Prescott, Economics. Prescott has also served as chair of the Joint Faculty Policies Committee and chair of the College of Social Science IT Committee.

Two undergraduate students, Ann Bilanski and Chris Niebler, were appointed to one-year terms. A third-year agricultural economics and business student, Bilanski is local affairs commissioner for the Central Student Association (CSA). Niebler is a fourth-year history and English student and external affairs commissioner for the CSA.

Daniel Sellen, a PhD student in the Department of Agricultural Economics and Business, was also appointed for one year.

Completing terms on the board are Maureen Sabia, Bill Pattison, undergraduate students Marty Williams and Don Cockburn, graduate student Karen Houle and Prof. Roger Horton, Botany.

Effective July 1, Bill Brock, who has served one three-year term as board chair, will continue for another one-year term. Doug Dodds and Tanya Lonsdale will serve one-year terms as vice-chairs. In addition, Lonsdale will chair the board's physical resources and property committee for a one-year term.

Also serving one-year terms as committee chairs are Greg Clark, audit; Susan Faber, external relations; David Lees, finance; Catherine Hume, membership; and Ken Bedasse, pension and benefits.

Faber's appointment marks the first time an internal representative on the board has been named to chair a committee. As a chair, she will be a member of B of G's executive committee.

Pension amendments

In other business, B of G voted to amend the pension plan text. As a result, no new additional voluntary contributions will be permitted, and all such remaining contributions will be set up as personal RRSPs or as otherwise directed by the participants in accordance with current pension legislation. □

SCIA 'deeply regrets' Sulawesi Project demise

Continued from page 1

given the marked improvement in the quality of public debate in Indonesia over the past two years."

On June 8, CIDA officially informed Guelph that the Indonesian government had decided that all project wind-down activities in Indonesia were to end by July 20.

At a June 22 meeting, SCIA members said they "deeply regret" the government of Indonesia's decision and lamented that SRDP's good work cannot be completed. The full impact of the project's conclusion on Guelph's ongoing activities is yet to be determined, said MacDonald.

U of G has been working in Sulawesi since 1984 in two successive projects to help strengthen the planning of rural activities. The project includes a strong human resources development component. Hundreds of small community-level development projects were funded in the areas of health, education, agriculture, livestock management, co-operatives and small enterprises.

According to MacDonald, the withdrawal is proceeding in an orderly fashion. The government of Indonesia has given assurances that it will be sensitive to the needs of project team members and that they will be allowed to stay in the country and work on other projects, he said.

The closure of the project is not expected to have any impact on the other 10 Canadian universities working in Indonesia.

MacDonald added that CIDA's relationship with U of G remains strong and that this situation will not jeopardize any current or future dealings between them.

The CIDA representative said U of G "is an important partner for CIDA, not only in Indonesia but in many other developing countries as well. This situation will in no way prevent CIDA from collaborating with the University of Guelph on other development assistance projects."

Prof. Jim Shute, director of the Centre for International Programs, said at last week's SCIA meeting that although the withdrawal is unfortunate, "it is time for the institution to get on with the many other international initiatives that we wish to pursue."

President Mordcheai Rozanski also expressed regret at the Indonesian government's decision. Nonetheless, he strongly endorsed the review process in Senate and the integrity of the open debate at U of G. He also thanked CIDA officials and Canadian Ambassador Larry Dickenson for their consistent support and respect for the University's review process. □

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Taking children's literature seriously

Young scholars contribute to new book on Lucy Maud Montgomery

by Shawn Chirrey
Office of Research

Children's literature is anything but kids' stuff, and nowhere is that belief stronger than at U of G.

Guelph is the English-language home of the journal *Canadian Children's Literature/littérature canadienne pour la jeunesse*. Founded in 1975, CCL is still the only national critical journal in children's literature.

It has just received a Social Sciences and Humanities Research Council grant to help publish a special supplementary book on Lucy Maud Montgomery of *Anne of Green Gables* fame, featuring the works of many young scholars, including Guelph MA English students Marie Campbell and Laura Higgins. Other contributors are from the United States, United Kingdom and Scandinavia.

The new CCL book was launched last week at the L.M. Montgomery Symposium at the University of P.E.I. CCL co-editor Prof. Mary Rubio, English, says this collection argues for new

ways to read Montgomery's work, in light of recent innovations in feminist and autobiographical scholarship.

She and professor emerita Elizabeth Waterston have edited the Montgomery journals and were guest speakers at the symposium, the first international gathering to discuss Montgomery's work.

"It's ironic that Montgomery is now considered a children's writer," says Rubio. "Our articles place her in the much broader cultural context of a popular writer who wrote for the general public in her day and who was, in effect, 'demoted' to being seen exclusively as a children's writer because the tastes of the reading public changed after the Second World War."

Rubio says contributors to this collection "really dig into the subtle feminist subtexts in her fiction and journals." And established scholars, using information systems such as Internet, have begun charting Montgomery's reach and cultural impact.

Rubio says children's books



The journal *Canadian Children's Literature* has published a special supplementary book on Lucy Maud Montgomery. From left are professor emerita Elizabeth Waterston, co-founder of the journal and a

current editorial board member, Prof. Mary Rubio, English, magazine co-founder and co-editor, and Prof. Daniel Chouinard, French Studies, magazine co-editor. Photo by Martin Schwalbe, Photographic Services

often reveal a lot about a nation and its culture. They provide deep insights into socialization patterns, history and culture. They can also be controversial because they are typically subject to greater censorship than adult's books.

"Our journal was started to fill a void," she says. "There was no place for teachers, librarians and

professors to find good critical articles and in-depth reviews of children's books produced in this country, nor any place for writers/scholars to publish critical articles about children's book production in Canada."

CCL maintains an illustrious editorial board, including such authors as Jean Little, Farley Mowat and Robert Munsch. In re-

cent issues, it has taken on such topics as censorship, picture books, psychoanalytic approaches to older kids' fiction and recycling fairy tales and myths. In future issues, CCL intends to address other crucial matters in Canadian children's literature, such as understanding regionalism, sexism, racism and other types of marginalization. □

Research farms adopt no-till technologies

by Jennifer Cutts
Office of Research

Nature dealt Ontario a particularly bad hand last winter, but George Robinson, manager of U of G's research farms, is maintaining a "poker face."

Both the winter alfalfa and wheat crops emerged well, and he's confident that the stakes aren't any higher this year than in the past. In fact, the research farms are even venturing into new territory this summer, using strategies

designed to promote greater environmental care.

The farms, which U of G manages for the Ontario Ministry of Agriculture, Food and Rural Affairs, are making the move this year from full tillage (plowing) to reduced tillage.

Although its application varies from crop to crop, reduced tillage basically minimizes costs by allowing farmers to seed directly into last year's crop stubble in unplowed fields.

Reduced tillage also discourages

erosion. Because fields seeded this way are not plowed, soil remains basically undisturbed.

Research on reduced tillage has been going on at the farms for several years. "It's been successful in research applications, so we decided it's time to proceed on a larger scale on the production side of the farms," says Robinson.

Research farm operators are planting about the same quantity and variety of crops as in past years — 1,100 acres of corn and 300 acres each of soybeans, barley

and alfalfa. Much of what is harvested at the farms is used to meet the feed and bedding requirements of the livestock base used for research programs at Guelph.

Other environmentally friendly techniques the farms are using include a nitrogen-testing technique developed by Profs. Gary Kachanoski and Eric Beauchamp, Land Resource Science.

For the past few years, the farms have been analysing soil for the amount of nitrogen available (especially for corn, which has high nitrogen requirements) before planting in early May. Nitrogen is then added according to how much was found in the fields, so the corn is exposed to the ideal nitrogen level.

Cost offset

Robinson believes the cost of the tests is soon offset by considerable savings in nitrogen costs, not to mention the advantage of loading less nitrogen into the environment.

The farms will also continue to rotate and reduce the amount of pesticides and herbicides used to manage weeds and insects. Different chemicals are used for each period of application. Pre-emergence herbicides are incorporated into the fields; an alternative post-emergence herbicide is used for weeds that escape the initial applications.

In addition to rotating chemicals, the farms rotate crops. This avoids the problem of insects and weeds getting accustomed to the crop in one particular area and flourishing. Rotating crops also promotes soil sustainability, especially when it involves crops like clover that rejuvenate the soil. □



U of G's research farms are making the move from full tillage to reduced tillage this summer, says farms

manager George Robinson, shown here with a no-till seed drill. Photo by Trina Koster, Office of Research

Workshop series to focus on nutrition

Continuing Education and Enjoy for Life! are offering the first in a series of nutrition workshops July 6 and 7.

The workshop is geared to people with a basic understanding of nutrition and who have some experience in physical training. It will be of interest to personal trainers, nutritionists, teachers, athletes, coaches and dietitians, as well as anyone with an interest in this area.

The two three-hour sessions from 7 to 10 p.m. will:

- review the latest sports nutrition research;
- explore the facts behind common sports nutrition myths;
- discuss eating disorders in fitness and sport;
- look at case studies of athletes and the role of nutrition in performance; and
- gather information and strategies for the practical application of sound nutrition knowledge.

Workshop leader is Linda Barton, a graduate of Guelph's master's program in applied human nutrition who runs her own nutrition and lifestyle consulting and education service called Enjoy for Life!

Guest speaker is athletic trainer Judy Woloshyn of the Department of Athletics.

For more information about this workshop or future workshops in nutrition, call Ext. 3956. □

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NOTICES

Morand to visit

Peter Morand, president of the Natural Sciences and Engineering Research Council, will visit Guelph July 5. As part of his visit, he will be available for an information session for faculty, graduate students and postdoctoral fellows from 10:30 a.m. to 12:30 p.m. in Room 100 of the Thornbrough Building.

Heads up!

Hope for good breezes and tight lines at the second annual CFRU kite festival. Join kite makers, face painters and fliers July 9 from 11 a.m. to 6 p.m. at the Municipal Park "Mole Hill" beside the civic bus barns.

Oh, Canada Day

Celebrate Canada Day at the Guelph Museums with lizards and reptiles. Starting July 1, the Guelph Civic Museum will feature "Dinomania," a dinosaur exhibit from the Biology-Earth Science Museum in Waterloo. Companion

attractions on the holiday will feature Rich's Reptiles at the Guelph Civic Museum and Guelph Heritage arts demonstrations at McCrae House. Admission is free.

On exhibit

The Service Hardware Gallery presents "Eye Music/Our Language," an exhibit of works by Allanah and Douglas Scott, July 6 to 30. The opening reception is July 10 from 2 to 4 p.m.

Day camp openings

The Sunrise Equestrian Centre is offering an integrated day camp for children ages six to 12. Two-week sessions are available, starting July 4. Cost is \$300. Call 837-0558 for more information. The centre is also looking for people interested in volunteering to help with the centre's programs.

Intro Aikido

The Department of Athletics is offering an introduction to Aikido this summer for children ages seven and up. The sessions will run Saturdays from July 9 to Aug. 6 from 11 a.m. to 12:30 p.m. Cost is \$18. Register at the Athletics Centre cashier's office or by mail.

Garden tour

The Wellington County Museum and Archives and the Theatre on the Grand present a garden tour of Fergus and area July 16. The tour runs from 10 a.m. to 3 p.m. and features five area gardens, including the museum's heritage garden. Cost is \$5. Tickets are available through the museum or theatre.

Chequing in

Federal Industry Minister John Manley was in Guelph last week to present a cheque for \$2 million from Tourism Canada to the City of Guelph. The cheque represents the federal government's contribution to the Guelph Civic Centre building campaign. Designed by Moriyma & Teshima Architects, the building will be started in early

1995 and is expected to open in the spring of 1997.

Printmaking workshop

Guelph fine art graduates Sue Daugherty and David Mutton will lead a workshop called "Explorations in Printmaking" July 24 to 29 at Hemlock Grove. It is designed as an artistic retreat. For information, call 837-8986. □

JOBS

As of At Guelph deadline June 24, the following opportunities were available:

Systems Analyst I, OVC Computer Group. Salary range: \$29,770 minimum, \$37,213 job rate, \$44,656 maximum.

The following positions were available to on-campus employees only:

Research Technician, grant-funded position from July 1 to April 30, 1995. Salary range:

\$18.65 minimum, \$23.31 job rate, \$27.91 maximum.

Library Associate, Reference Services, McLaughlin Library. Salary range: \$15.70 minimum, \$19.63 job rate, \$23.55 maximum.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, visit Human Resources Client Services on Level 5 of the University Centre or call 836-4900. □

Work could slow traffic

Stone Road and South Ring Road may face traffic slow-downs or detours over the coming month while a sanitary sewer line to the Village by the Arboretum development is being installed. Work began this week and should be completed by July 22, says John Flowerdew, head of engineering in Physical Resources.

The disruption of traffic is expected to last less than two weeks, says Flowerdew. Intra-mural softball games on the south diamond will also be interrupted and will be rescheduled for Johnston Green, he says.

Fourteen trees, including three of a rare species of maple, will be transplanted to make way for the sewer line. Flowerdew says the rare maples will be moved to a site adjacent to their current location on Stone Road. □

CLASSIFIEDS

FOR SALE

Citizen color dot matrix printer, good condition, extra ribbon, 2,500 sheets of paper included. Tim, 822-0893.

Queen-size quilted bedspread or throw, multi-color, two pairs of priscilla curtains, soft butter yellow, suitable for bay window. 822-3129.

Lady's burgundy velvet coat, spring/fall weight; lady's leather jacket with zip-in lining, both size 8-10, excellent condition. Peggy, Ext. 4215 or 843-6490 evenings.

Storkcraft crib and mattress, white with yellow sides; Little Tykes site scooter, blue, 763-2783

FOR RENT

Two-bedroom bungalow on large treed lot, garden space, available immediately, 763-4885.

Luxury two-bedroom ground-floor walk-out apartment, 1,200 square feet, laundry, dishwasher, parking, on bus route, 10 minutes to University, non-smokers, available mid-May, \$950 a month inclusive, 767-2633.

FOR RENT

Three-bedroom home on quiet crescent, close to schools, 1 1/2 baths, sunroom, finished rec room with wood-stove, laundry, stove, refrigerator, garage, large back garden, storage shed, available Sept. 1, \$1,100 a month plus utilities, references, 824-8195 after 5 p.m.

Three-bedroom lakefront cottage on inland lake on Bruce Peninsula, July and August, Ext. 2188 or 836-1397.

Pioneer sound system: receiver, CD player, dual tape deck, turntable, four speakers (two JBLs), black stand, 824-2998

WANTED

Single non-smoking female to share two-bedroom apartment with working female, must like cats, \$325 a month inclusive, 837-1195 evenings.

Ride to Sudbury for long weekend or people interested in renting vehicle to drive to Sudbury, 821-7919.

Victorian-style wicker baby buggy, 822-3129.

WANTED

Temporary rooms in homes for students waiting to get into residence for a few days, a week or a month, starting in September. Off-Campus Housing, Ext. 3357.

Two local entrepreneurs to team up with like-minded individuals, third- or fourth-year students preferred, 822-4349.

Ride from Highway 10 in Mississauga to the University, will share gas costs and/or driving, Kim, Ext. 4900 or 905-275-2247 evenings.

AVAILABLE

Pet-sitting service, vet student, live in or out, experienced with large and small animals, reasonable, Anne, 766-0193.

Classifieds is a free service available to staff, faculty, students and alumni of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham on Level 4 of the University Centre. For more information, call Ext. 6581.

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CALENDAR

THURSDAY, JUNE 30

Pathology Seminar - Graduate student John Copps discusses "The Roles of NK Cells and CD8+ T Cells in the Immune Response to Pneumonia Virus of Mice in SCID Mice" at 11:10 a.m. in OVC 2152.

FRIDAY, JULY 1

Cycling Club - A 25-kilometre off-road ride leaves from the UC south doors at 5 p.m.

SATURDAY, JULY 2

Cycling Club - A 180-km weekend ride to Wasaga Beach leaves from the UC south doors at 10 a.m.

SUNDAY, JULY 3

Cycling Club - A 30-km swim ride to Cambridge leaves from the UC south doors at 10 a.m.

Arboretum - A general tour of the Gosling Wildlife Gardens begins at the nature centre at 2 p.m.

TUESDAY, JULY 5

Animal and Poultry Science Seminar - Graduate student Konrad Kulak offers an "Evaluation of Lifetime Profitability Measures and Their Relationships to First Lactation Traits in Holstein Cows" at 11:10 a.m. in Animal Science 306.

Veterinary, Microbiology and Immunology Seminar - Graduate student Shayan Sharif explains the "Immunogenetics of the Bovine Major Histocompatibility Complex" at 11:10 a.m. in OVC 2152.

WEDNESDAY, JULY 6

Biochemistry Seminar - Jon La Marre discusses "The α_2 -Macroglobulin Receptor/LRP: Modulation of a Multifunctional Receptor Complex" at noon in MacNaughton 222.

Cycling Club - A 29-km novice ride to Maryhill leaves from the UC south doors at 5 p.m.

FRIDAY, JULY 8

Biomedical Sciences Seminar - Graduate student Margery Hay

will discuss "Gamete Interaction: It's a Dog's World" at noon in OVC 1642.

Cycling Club - A 25-km off-road ride leaves from the UC south doors at 5 p.m.

SATURDAY, JULY 9

Cycling Club - A 150-km weekend ride to Stratford leaves from the UC south doors at 10 a.m.

SUNDAY, JULY 10

Cycling Club - A 65-km ride to Campbellville leaves from the UC south doors at 10 a.m.

Arboretum - A walk through the Gosling Wildlife Gardens will include a tour of the annual and perennial meadows. The walk leaves from the nature centre at 2 p.m.

TUESDAY, JULY 12

Animal and Poultry Science Seminar - Graduate student Yousef Al-Hafedh discusses "Estimation of Genetic Parameters in *Tilapia Nilotica* (*Oreochromis Niloticus*)" at 11:10 a.m. in Animal Science 306.

WEDNESDAY, JULY 13

Cycling Club - A 43-km novice ride to Hespeler leaves from the UC south doors at 5 p.m.

FRIDAY, JULY 15

Biomedical Sciences Seminar - Graduate student Ron Johnson considers "Chondrotoxicity of Quinolones in the Juvenile Rabbit" at noon in OVC 1642.

Cycling Club - A 32-km off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, JULY 17

Cycling Club - A 47-km swim ride to Everton leaves from the UC south doors at 10 a.m.

Arboretum - A Sunday afternoon

walk will focus on herbs for your garden. Meet at the nature centre at 2 p.m.

TUESDAY, JULY 19

Animal and Poultry Science Seminar - Graduate student Charles Otieno talks about "Expression of Luteinizing Hormone Genes in Bovine Embryos" at 11:10 a.m. in Animal Science 306.

WEDNESDAY, JULY 20

Cycling Club - A 40-km swim ride to Puslinch Lake leaves from the UC south doors at 5 p.m.

WORSHIP

Catholic mass is celebrated Sundays at 10:10 a.m. in the School of Landscape Architecture lobby.

Multifaith calendar

In the Baha'i faith, July 9 commemorates the Martyrdom of the Bab. Work is suspended on this day. July 13 is Kalimat, the seventh month of the Baha'i year.

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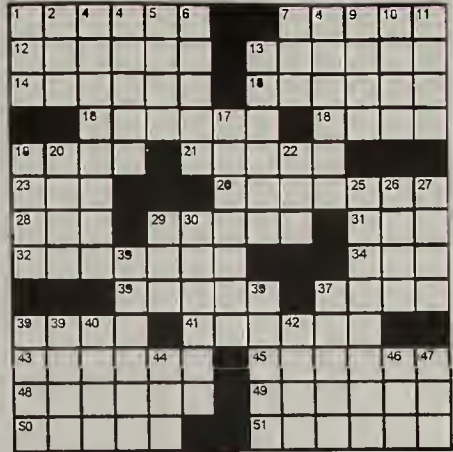
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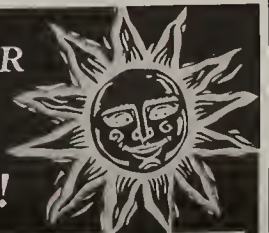
1. Zoroaster's works
7. Rope with a running noose
12. Spire ornament
13. Made hog sounds
14. Tell secrets
15. Social system
16. Fostered
18. Eastern title
19. Drove illegally
21. Beaten path
23. Existed
24. Washing lightly
28. In the past
29. African antelope
31. Human beings
32. Gregarious bird
34. Former Mrs. Sinatra
35. Hackett or Ebsen
37. Waistband
38. Identical
41. Barometric line
43. Direction
45. Jayhawk state
48. Loosens
49. Seniors
50. Alloys
51. Leaseholder

DOWN

1. In the rear
2. By way of
3. Mezzanine
4. Located
5. Hindu rhythmic pattern
6. On one's guard
7. Be recumbent
8. Stage show backers
9. Read superficially
10. Half prefix
11. Baltic river
13. Consecrate as a priest
17. Short trips
19. Make an exchange
20. Singer Patti
22. Gary's state: abbr.
25. Baptizes
26. Astronaut Armstrong
27. Biting insect
29. Medieval shield
30. Well-bred women
33. Ancient Spain
36. Country bumpkin
37. Elastic rings
38. Waste matter
39. Excellent
40. Fisher's "and Jeff"
42. Make hay
44. French salt
46. 100 square meters
47. Compass point

For crossword solution, see page 2.

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FOCUS

He's a real sport!

'Superfan' Dino keeps team spirits high

by Justin Diggie
University Communications

Be positive and help others. That sums up a big part of Dino Scrementi's philosophy of life. The assistant manager of Gryphs Sport Shop sees the University community as his "family" and never backs away from any opportunity to help make campus life a little more enjoyable.

Scrementi is known as the "Superfan," but that only begins to describe his spirit and dedication. It's true that he usually makes an appearance at every sporting event on campus and in downtown Guelph — sporting his trademark beanie — but he's more than just a fan and a retailer. He's always ready to serve when he can and likes to see himself as a promoter of the University itself.

Contributing more

"I try to be involved in promotional activities and sports," he says. "Whatever's going on, I'm there. It makes me feel like I'm contributing more."

Born and raised in Newfoundland, Scrementi earned a BA in child psychology from the University of Waterloo and a diploma in early childhood education from Conestoga College. He came to Guelph in 1984 or, as he describes it, "the year the Gryphons won the Vanier Cup."

He managed the Athlete's Foot until becoming part owner of Dino's Athletic Club, a downtown athletics store. He moved to

Gryphs in 1992. "I am the assistant manager officially, but I'm there every day to serve the customers," he says.

And serve his customers he does. Every day, seven days a week, you can find Scrementi at Gryphs selling merchandise, clipping and posting Guelph sport stories from various newspapers or just talking to friends and customers.



Dino Scrementi

"I wanted the sports shop to be a social spot on campus," he says. "It's a meeting place with its own identity. It really promotes the University."

It also carries a lot of merchandise. On any given day, the store is crammed to the ceiling with Gryphon T-Shirts, sweatshirts and pants and, more recently, athletic and casual shoes.

"Gryphs is a pro shop, but more," says Scrementi. "We try to put everything we can into it. Ironically, the store was originally set up to sell (hockey) sticks and tape."

Service is crucial to successful retailing, he says. "When you're in retail, you're there for the people."

Service is a key word in Scrementi's vocabulary. Not only does he work at the sport shop seven days a week, but he also extends his service to the community as a whole. When he's not working or cheering at a Gryphon sporting event, he can be found

refereeing, coaching or supporting Guelph's Church Youth Organization Basketball Program, helping out with Hoops and Hustle, a city basketball program for young people, or taking in a Guelph Royals baseball game.

His volunteer work doesn't revolve entirely around sports. He's also done his part to help various charities around the area, both in terms of fund raising and promotion. Earlier this month, he served as captain of the "beanie squad" (also known as the Hospitality/Retail Services team) in the Hot Foot Happening relay for the Guelph Hospital Foundations. These charitable activities hold a special place in Scrementi's heart because "you know you're doing a good thing."

Still, it's in his "Superfan" role that Scrementi serves U of G best. "The Superfan thing started with promoting and supporting the Gryphon basketball team," he says. "I went wild at all the games, and CHCH television began calling me Guelph's Superfan. The name stuck and extended to other teams as well."

Unofficial mascot

Scrementi has become U of G's unofficial mascot and cheerleader. "I bleed like the Gryphons," he says. "No one can put them down."

Through promoting and supporting U of G athletics, he hopes to make life at the University "more enjoyable for the kids." And from all accounts, he has succeeded.

Dan McNally, head coach for the football Gryphons, says Scrementi is "the ultimate in a loyal and expressive fan. He's a real plus. When the environment at a game is exciting, more people go out and have fun."

McNally believes every varsity athlete appreciates having Scrementi on campus. "The athletes appreciate him on game days and also like him as a person," says McNally. "More often than not, they go into the shop not to buy something, but just to talk to Dino." □



A stone sculpture from the virgin portal of Notre Dame Cathedral in Paris (circa 1220).

Attitudes to women influence depictions of Eve and serpent

by Margaret Boyd
University Communications

The temptation of Eve in the Garden of Eden as told in the Book of Genesis is puzzling. Although a critical part of Christian thought, it leaves many questions of motive and circumstance unresolved. How could a serpent speak? Why did the serpent approach Eve and not Adam? Why did the serpent want Eve to break God's prohibition?

Medieval commentators struggled to resolve these questions. When artists were confronted with the task of illustrating the temptation, the ambiguities in the story afforded both restrictions and opportunities.

Department of Fine Art lecturer Linda Denesiuk notes that medieval depictions of the temptation show that artists also struggled with the story and, in so doing, often reinterpreted it. Understanding attitudes towards Eve throughout history is critical, she says, because women today are confronted with attitudes shaped by a long history of interpretations of the temptation of Eve.

What piques Denesiuk's interest are the late medieval depictions of the temptation in which the serpent has a woman's face. She believes this woman-headed serpent reflects women's status in medieval society.

The standard depiction of the temptation — which was already becoming formalized in the third century — shows Adam and Eve standing on either side of the Tree of Knowledge with a serpent wound around the trunk. When artists added any details, gestures or even glances, the interpretation of the temptation could be changed because the visual depiction communicated ideas as doctrinally charged as any written commentary.

Through the Middle Ages, the

serpent was gradually given a more active role.

The earliest depictions of the serpent with a woman's head appeared in the late 12th century. There are countless variations, including one in which the serpent scowls down on Adam and one in which the countenance mirrors Eve's own.

The source for the woman-headed serpent was Peter Comestor's *Historia Scholastica*, written between 1163 and 1173. One of the most popular books of its time, it states that a woman-headed serpent was sent to tempt Eve because "like favors like."

Denesiuk notes that the idea could have been inspired by a variety of sources. Hybrid temptresses such as sirens were popular subjects in medieval art. Lilith, a female demon of the night — and sometimes considered Adam's first wife — may also have been influential.

Dramatic performances of the stories of Genesis, in which an actor was dressed in a serpent costume, may have inspired artists, she says. But although many sources for the idea of the woman-headed serpent can be identified, it is much more difficult to understand why it became so popular in the late Middle Ages.

At this time, the temptation was increasingly viewed as an example of rhetorical cleverness. Denesiuk says rhetoric had long been associated with women and their falseness, so it was a natural progression to depict the serpent, which used language falsely, with a woman's face. This is just one example of the many backlash images of women as their power and status began to rise in the late Middle Ages, she says.

The woman-headed serpent was an expression of deep societal misogyny that still manifests itself in contemporary images, she says. □

At Guelph
summer schedule

Publication date	Copy deadline
July 13	July 6
July 27	July 20
Sept. 14	Sept. 7



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FIRST GLANCE

One-stop service

The campus fire and police divisions and Parking Administration are now consolidated in the Trent Building, former home of the Physical Resources administration.

Community liaison officer Const. Robin Begin says the new centralized location will be more convenient for members of the University community. Obtaining parking permits, paying parking tickets and making security arrangements for special events can now all be done in the Trent Building.

Inside:

SPC enters next phase with new committees 2

Graphics and Print Services merge with Hospitality and Retail Services 3

Restructuring puts TSS in teaching trenches . . . 3

Jack-of-all-trades training for campus administrators 4

Selling ecologically friendly landscape . . . 5

Newest Research Park tenant at education forefront 9

Calendar 11

Campers willing to pay more for wilderness experiences 12

Thought for the week

Egotism — usually just a case of mistaken nonentity.

Barbara Stanwyck

**DOWNTOWN
GUELPH**



One . . . two . . . tree

Keeping tabs on Ontario's trees is no small task, but the Arboretum is tackling it with the help of the Ontario Forest Research Institute.

The goal is to create the province's first tree atlas. Arboretum director Prof. Alan Watson, above, says the atlas will be a valuable re-

search tool and resource and may provide a basis for conservation policies. See story on page 5. Photo by Tina Kosier, Office of Research

Alumni launch fund raising for conservatory

by Maurice Oishi
University Communications

The curves and glass of the fallow conservatory may again harbor foliage, the fruit of an alumni-initiated effort to rejuvenate the structure.

A committee of alumni, staff and faculty determined to revive the 63-year-old greenhouse structure launched a fund-raising campaign during Alumni Weekend. Restoring the conservatory's grandeur and resurrecting its ornamental gardens and reflecting pool is expected to cost \$650,000.

Located by the southwest corner of the University Centre, the conservatory was once the campus centerpiece. OAC graduate Ann Smith, who earlier initiated efforts to turn the old sheep barn into Alumni House, has spearheaded the drive to restore the conservatory.

"I feel this way about the old buildings on campus: If alumni can't come back and recognize the University, they won't feel ownership," she says. This ownership is important both for sentimental reasons and to ensure continued alumni support, she says.

OAC and OVC graduate Bill Gregg, who is overseeing the fund-raising effort, recalls the importance of the conservatory in campus life. At the fund-raising kickoff, "everybody spoke about Sundays," he says.

Sundays were a time when students went to church, visited the barns and went for walks. And they would visit the conservatory and its gardens. "It was a real oasis," he says.

The gardens and reflecting pool were razed in the 1970s to make way for the University Centre. Over time, the glass and cypress conservatory fell into disuse and

decline.

Smith heard the neglected structure was in jeopardy three years ago. That's when she swung into action, putting into place the committee that piloted the fund-raising project.

Restoring the conservatory and installing contemporary climate-control equipment will cost \$300,000. Landscaping and project operating costs will add another \$170,000 and \$30,000, respectively. Also required is a \$150,000 trust fund for continued maintenance of the structure.

The conservatory will remain in its current location. Behind it, the former site of the horticulture greenhouses will be restored to gardens, with a parking lot at the south end.

Gregg says alumni response to the project has been positive. The first effort — the sale of conservatory sweatshirts — is aimed at

raising both money and awareness.

Rosemary Clark, director of advancement programs in University Affairs and Development, says the project will rely exclusively on donors who are not already committed to other U of G fund-raising efforts.

Gregg says he hopes to have sufficient funding in place to commit to the restoration by October. The committee would like to begin the restoration next spring.

"I'm optimistic," he says. "There'll be lineups for wedding pictures at the place."

Contributions to the restoration effort can be directed to the Conservatory and Gardens Fund at Alumni House, payable to U of G. Sweatshirts are also available at Alumni House for \$100. A tax receipt for \$85 will be issued for each purchase. □

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Farcus

by David Wapniss
Gordon Gouman

"It must have been a power surge."

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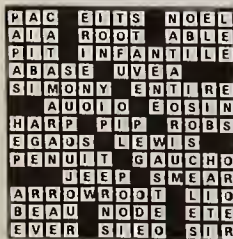
Correction

In the June 15 issue of *At Guelph*, an incorrect photograph was identified as Jack Winkler, the thousandth student to graduate from Independent Study/OAC Access. The correct photo is shown here. □

At Guelph

summer schedule

Publication date	Copy deadline
July 27	July 20
Sept. 14	Sept. 7



'Framing the Choices' spawns new committees

Students aren't the only ones who have major assignments to finish by the end of the summer. Committees have just been named to investigate issues identified by the Strategic-Planning Commission (SPC) in "Framing the Choices."

Most of the committees were constituted early in July and have already started meeting. The plan is to have them complete their work and report to the SPC by the end of August, says SPC chair Prof. Bev Kay, Land Resource Science.

"Framing the Choices" painted broad brushstrokes and "identified several ideas, issues and areas of concern where much more analysis and background were required before recommendations could be made," says Kay. "These committees will focus on those areas."

Membership in several committees is still being finalized. A complete roster of committee members will be posted in GRIFF under "Strategic-Planning Commission."

terminating or modifying those that don't meet the criteria.

Chair: Nigel Bunce (F)

Members:
Hugh Earl (G)
Lesley Isaacs (U)
Michael Keefer (F)
John Leatherland (F)
Jack MacDonald (F)
Bryan McKersie (F)
Michael Moss (F)
Donna Woolcott (F)

Workload study and resource-allocation mechanism

Mandate: To define criteria for estimating workload of faculty and to identify and assess alternative mechanisms for allocating resources to colleges and academic departments.

Chair: Iain Campbell (F)

Members:
Louis Christofides (F)
Pat Gentry (F)
Derek Jamieson (S)
Gerry Manning (F)
Murray McEwen (B of G)
Marty Williams (U)

Semester system

Mandate: To evaluate the costs and benefits of abolishing the semester system.

Chair: Ken Grant (F)

Members:
Cathy Beattie (S)
Chuck Cunningham (S)
Ralph Deline (U)
Adrian DeLyzer (S)
Bill Frisbee (F)
Virginia Gray (S)
Jan Jofriet (F)
Jack MacDonald (F)
Joe Mokanski (F)

David Murray (F)
Brian Sullivan (S)

Performance evaluation and orientation/retraining

Mandate: To assess current performance-evaluation systems and orientation/retraining programs for staff, faculty and administration, with a view to developing a closer link with the strategic directions of the University.

Chair: Wayne Marsh (S)

Members:
Andre Auger (S)
Danny Butler (corresponding member) (F)
Mario Finoro (S)
Ken Jeffrey (F)
Colin Marsh (S)
John Roff (F)
Ian Simmie (U)
Jane Watt (S)

Terms of appointment

Mandate: To identify the most significant issues related to sessionals and other contractually limited appointments, reduced-term appointments and alternative career paths, to define the implications of these issues for U of G and to outline alternative ways of dealing with these issues.

Chair: Alun Joseph (F)

Members:
Norman Gibbins (F)
Ian McMillan (F)
Constance Rooke (F)
Bruce Ryan (F)
Margaret Stewart (F)

Collaboration with alumni

Mandate: To identify opportunities for alumni to become more involved in the life of the community and more helpful in strengthening it.

Chair: Clay Switzer (A)

Members:
Elizabeth Cockburn (A)
Ron Downey (F)
Bill Gregg (A)
Denis Lynn (F)
Andrea Pavia (U)
Tom Sawyer (A)
Susan Verduyse (S)

APPOINT-

Prof. Michael Sobol will be acting chair of the Department of Psychology from Sept. 1 to Aug. 31, 1995, while Prof. Michael Matthews is on administrative leave. Matthews has been reappointed chair of the Department of Psychology for a three-year term that begins Sept. 1, 1995.

Prof. Michael Haywood has been named acting director of the School of Hotel and Food Administration until a new director is appointed to replace Prof. Michael Nightingale.

Prof. John Liefeld is acting chair of the Department of Consumer Studies until June 30, 1995. □

The learner-centred university

Mandate: To describe conditions that should be met in a learner-centred university and to outline how Guelph could more effectively achieve these conditions in the context of current enrolments and resources.

Co-chairs: David Knight, Terry Gillespie (F)

Members:
Tammy Bray (corresponding member) (F)
Don Cockburn (U)
Anna Dienhart (G)
Christopher Garner (U)
Tom Michaels (F)
Larry Milligan (F)
Peggy Patterson (S)
John Roff (F)
Constance Rooke (F)
Jennifer Story (U)
Susan Waterman McLean (F)

Consideration of course/credits required for graduation

Mandate: To assess the desirability of replacing the criteria for graduation based on courses with criteria related to credits and of reducing the total course/credits required for graduation; to define the mechanisms and feasibility of implementing such criteria.

This committee has not yet been struck.

Climate of trust and respect with open communication

Mandate: To define specific goals to be achieved in enhancing a climate of trust and respect with open communication and to outline policies and procedures that will help the University community realize these objectives.

Co-chairs: Barbara Abercrombie, Mary Cocivera (S)
Members:
Diane Boyd (S)
Madie Férère (S)
Kevin Kelloway (F)
Barry Millman (F)
Michael Nightingale (F)
Doug Odgaard (F)

Internationalism

Mandate: To review existing reports, collate strategic directions that have already been identified, seek external assessments and identify any additional strategic directions considered important. Together with the existing committee that is dealing with structures related to international programs, this group is to develop recommendations on options regarding strategic directions and structures.

Chair: David Joseph (F)

Members are not yet finalized. □

The committees

Academic planning

Mandate: To identify and assess important unifying academic themes; to assess the current structure of departments, colleges, faculties, program committees and centres and consider alternatives for reconfiguration; and to develop and apply criteria for the continuation of specializations and courses and identify the impact of

LETTERS

More At Guelph news on GRIFF?

Having recently discovered GRIFF with my modem, I've appreciated not having to run out to pick up a copy of *At Guelph* every week. I happened to pick one up anyway recently and was reminded of how much I miss not looking through the hard-copy version. My request is that you put more (or all) of the editorial material in *At Guelph* on the GRIFF service.

The major stories now on-line are fine, as are the calendar listings, but I think other sections, such as letters, appointments and classifieds, are also important. These contribute much to the value of the paper. Could they be included on-line, too?

With a more comprehensive electronic version, hard-working *At Guelph* staff will know their efforts are going further. Why not provide the newsprint edition to

visitors and everyone who wants to scan the ads and pictures, but give us on-line readers "the whole story" every week?

Russ Chamberlayne
Guelph

Editor's note: Major stories in each issue of *At Guelph* are available on GRIFF through the category "This Week at Guelph" at the University of Guelph."

Run raises \$300

Thank you to all members of the University community who donated to the Ontario Law Enforcement Torch Run for the Special Olympics. More than \$300 was raised for the cause.

Robin Begin and Gary Ferris
Campus Police

UNIVERSITY
of GUELPH

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At Guelph headlines top stories and coming events can also be accessed on GRIFF.

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Czech delegation visits

Josef Lux, deputy prime minister and minister of agriculture of the Czech Republic, left, and Czech Republic Ambassador Stanislav Chylek, right, visit with President Mordechai Rozanski. The Czech delegation was on campus touring agricultural facilities with Agriculture Canada.

Photo by Maurice Oishi, University Communications

Ancillary operations join forces

Graphics and Print Services, formerly part of University Affairs and Development, joined Hospitality and Retail Services July 1. The move brings together two major ancillary operations with similar business goals and functions.

With the reorganization, limited graphic design services will still be available through Graphics and Print Services, but photographic services will no longer be offered. The changes were announced in a June 29 memo from Charles Ferguson, vice-president, administration. Craig McNaught will continue to serve as manager of Graphics and Print Services.

The reorganization comes a year after Graphics and Print Services became an ancillary operation, with the requirement to cover all space and overhead costs. The amalgamation with Hospitality and Retail Services is consistent with past efforts to reduce duplication and achieve cost efficiencies required of ancillary operations, said Ferguson.

Photographic Services has experienced a steady and continual decline in volume of business over the last three years, to the point where this service is no longer viable, he said. Electronic alterna-

tives to photography, departmental photographic darkrooms and constrained budgets have all played a role in this decline.

Graphics and Print Services, which currently operates out of various locations on campus, will eventually consolidate its operations in the basement of the University Centre. It will continue to offer graphic design services, including consultation and co-ordination between campus clients and off-campus designers and printers, and will maintain a collection of photographs for University publications. □

Students offer real guide to U of G

Former *Ontario* editor Kathe Gray and *Peak* founder Marty Williams put together the U of G section of *The Real Guide to Canadian Universities*, published this spring by Key Porter Books.

Here's their take on the University:

On the persistence of the Moo U moniker: "Once upon a time this might have bothered some students, but now most take pride in their university's label. So if you come to Guelph, don't be surprised if a tractor pulls up to the McDonald's drive-through window. But don't expect the cast from *Green Acres*, either. Well, not just the cast from *Green Acres*."

On why the student population is 60.6-per-cent female: "Because in most programs, the cut-off average is so steep, men are left in high school. Over 45 per cent of the first-year students in 1992 were Ontario Scholars."

On the fact that student participation in intramural sports is an estimated 70 per cent: "At any given time, somebody somewhere is working up a sweat."

From the list of survival tips: "Don't embarrass yourself — wait until you are officially in before you spend hundreds on a leather vet jacket." "Don't take art history as a bird course. It ain't."

On the nightlife in Guelph:

"(Samuel) Johnson said that when a man is tired of London, he's tired of life. Well, when you are tired of Guelph, you haven't been going to the right spots."

On the improved off-campus housing market: "The recession has turned a lot of locals into landlords and a lot of their basements into student homes. Guelph has

become a buyer's market; prices are falling, and there is a rumor that owners are treating students like human beings rather than as an annoyance."

Summing up the University in a phrase: "Its friendly atmosphere makes Guelph a place lots of people want to stay, even after they graduate." □

Two houses will survive OMAFRA construction

Construction of the new Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) headquarters at the corner of Stone Road and Gordon Street poses some good news and not-so-good news. The former homes of Independent Study and the Centre for Toxicology will be spared the wrecking ball, but road closures will alter parking lot access.

The two houses where the instructional and research units were located had been leased to the University by the ministry for free. Now back in ministry hands and seemingly in the way of the new building, the historical houses will be reconstructed, saving the original facade, for use as a non-profit child-care facility.

The facility will accommodate 64 children when it's complete, says OMAFRA. Although 80 per cent of these spots will be designated for children of ministry employees, the remainder will be available to the public.

The construction will, however, result in closure of the road extending from Stone Road beside the municipal fire hall to parking lot P59. According to the contractor, the closure will last up to two years.

Drivers will still be able to access lot P59, which lies behind the Animal and Poultry Science and Bovey buildings, from Gordon Street, via South Ring Road. □

TSS reorganizes to meet needs of academic units

by Maurice Oishi
University Communications

Teaching Support Services (TSS) is putting new workings behind its familiar visage.

TSS has restructured to reach directly into campus colleges, says Prof. Constance Rooke, associate vice-president, academic. In the past, information has "trickled out" of TSS through individuals who have sought out its resources, she says. The restructuring will deepen the interaction between departments and TSS.

TSS will be more project-oriented, dedicated to meeting specific instructional needs within academic units, says Rooke. "We want the planning to be done in the colleges, with TSS involved as a resource."

The restructuring itself will stimulate interaction between TSS and colleges through increased faculty participation at all levels of the service. Profs. Ron Stoltz, Landscape Architecture, and Tom Carey, Computing and Information Science, are now co-directors of the operation. Along with the Learning and Teaching Centre Board consisting of faculty, student representatives and Rooke, they will pilot the three units of TSS: Teaching Resource Group, Learning Technologies Group and Classroom Technical Support.

Enhance learning

Carey, who will directly oversee the Learning Technologies Group, says the group will aid faculty who want to use new technologies to enhance student learning. Each college will be supported by a learning technologies co-ordinator. It will be up to each college to take best advantage of the expertise of co-ordinators Elizabeth Black, Don McIntosh, Les Richards and Brent Mersey, Carey says.

Although much of the work done by the former Instructional Support Group zeroed in on develop-

ing technologies and training, he says, the Learning Technologies Group will shift its emphasis to supporting faculty- and college-directed initiatives.

Stoltz sees a similar conceptual change in the direction of the Teaching Resource Group. Its mandate will remain the development of instructional skills and knowledge, he says, but "the programs we will support will be practical in nature and supported by theory," rather than simply giving broad theoretical information.

Move to specific

"It's easy to say we should be employing the learning objectives, but how do you do this?" says Stoltz. "We hope to move from broad concepts to the departmentally specific."

All three groups will remain housed in Day Hall. Classroom Technical Support, which also produces videos and services personal computers, will remain under the leadership of George Taylor.

Both the Learning Technologies Group and Teaching Resource Group will be overseen by councils made up of Learning and Teaching Centre Board members, faculty directors and designated members whose expertise will bolster the knowledge of each council.

At a time of diminishing funding, "we're trying to weave the services into the fabric of the University community," says Stoltz. Rather than tackle teaching issues from Day Hall alone, he expects TSS's new integrated approach to tap other campus resources.

"We want to make sure we have the appropriate programs available at the right time. To do this, we're going to have to rely more on one another's expertise." □

Agricultural practices, environment focus of engineering conference

"Agricultural Practices and the Environment" is the theme of the fifth annual Northeast Agricultural/Biological Engineering Conference to be held on campus July 25 to 27.

Almost 100 papers will be presented during the three-day meeting, says Prof. Jan Joffriet, director of the School of Engineering and co-ordinator of local arrangements for the conference.

Speakers from across the northeastern United States and eastern Canada will address the theme from both Canadian and American perspectives. They will also cover aspects of food

engineering and agricultural engineering.

Keynote speakers are Prof. Isobel Heathcote, Engineering, and Jeff Wilson, president of AGCare (Agricultural Groups Concerned About Resources and the Environment), who will highlight the impact of regulations on farming.

More than 20 papers by School of Engineering faculty, researchers and graduate students will also be presented.

Keynote sessions will include discussions of "Marketing Engineers" and "Teaching Biological Engineering." □

Administrative officer training program builds campus links

The challenge may have rested in the details, but the reward for participants of the administrative officer training program was in learning how the University works.

The pilot program, the end result of a Cresap recommendation to expand the training of administrative staff, put 15 candidates through an intensive six-month course. They took part in sessions on topics spanning budgeting, employment law and creative problem solving. But for many, the most valuable take-home message was learning who does what and why.

"I would say, right from the top, that it promoted a sense of community by building networks," says Ruth Gillespie, an administrator in the library. "I'll have new lines of communications, new ways to get information. And that was probably the most valuable experience."

Each week, participants were expected to dedicate an average of one full day to in-class activities. Sessions covered six broad areas: university administration, information management, academic administration, financial administration, human resources administration and performance skills.

Beyond in-class commitments, participants had take-home assignments, which added to the demands of their regular work responsibilities, says program co-ordinator Karen Kovats of Human Resources. That meant evenings and weekends spent juggling duties, she says.

"I found it to be intensive and tough — and rightfully so," says Philip John, financial officer in the Department of Animal and Poultry Science. "I wouldn't expect it to be easy."

Despite the workload, the consensus of participants was that the program was time well spent.

Cresap recommended that U of G establish an administrative officer position, to enable department chairs and heads to focus on their mainstream academic activities, and dedicate resources to related training. Although such positions are pending, implementation of the course couldn't come soon



Participants in the first administrative officer training program say their time was well spent. Photo by Maurice Olshi, University Communications

enough, says Reggie Vallillee, an administrative secretary in the Department of Physics.

Entering an administrative position is a "sink-or-swim situation," she says. "We've never had comprehensive training. Now we know where to go and who to ask for information. We aren't working in grey areas."

The broad-ranging course often put her out of her ken, she says. But "everyone brings their bit of expertise." Familiarity with one niche on campus often blocks out the bigger picture, she says. By working together, people see not only how their peers deal with problems, but they also have an appreciation for the jobs others do.

But getting the big picture didn't mean the details were lost. "I was really able to further hone my un-

derstanding of University policy and procedure, to the point that we can streamline procedures in my office and make them more efficient," says Gillespie. "I'm constantly using (this knowledge) now."

Kovats says the course will probably be offered again next year. In response to the feedback she's received from this year's participants, some sessions will be revamped and others may be added. "But it will probably be spread over a longer period of time," she says.

The pilot course was offered to administrative assistants and administrative secretaries with five to 30 years' experience.

"The modular format of the program will allow some of the content to be shared with the general University community through Human Resources' regular staff development opportunities," says Kovats. The program steering committee is investigating repackaging the program for incoming department chairs.

Kovats credits the success of the program to the co-operation and support of almost 100 academic and administrative employees across campus.

Other participants in the pilot program were Karen Carter, Psychology; Eileen Cook, Clinical Studies; Pauline Corcoran, FACS; Kathy Cross, HAPA; Sylvia Dassoy, Molecular Biology and Genetics; Evely Gadsden, Alumni Affairs; Theresa Hood, Human Resources; Gilian MacPherson, Human Biology; Linda McKenzie-Cordick, CPES; Michelle Normandin, Chemistry and Biochemistry; Phyllis Reynen, Drama; and Jenny Van de Kamer, Crop Science. □

PEOPLE

Adoption Council honors to two

Profs. Michael Sobol, Psychology, and Kerry Daly, Family Studies, received the H. David Kirk Award of the Adoption Council of Canada at the Sixth National Adoption Conference of Canada in May. The award recognizes outstanding contributions to adoption research. Sobol's work has focused on adoptive identity and searching for birth parents; Daly has looked at the transition to adoptive parenthood for infertile couples. For the past four years, they have directed the national adoption study.

Boyd named COUSA secretary

Diane Boyd of the library has been elected executive secretary of the Confederation of Ontario University Staff Associations, an organization committed to strengthening the role of staff in the university environment. President of the confederation is Kathleen Woodcock of Wilfrid Laurier University.

Faculty speak at Learneds

Prof. Gail Grant, Sociology and Anthropology, presented a paper relating eating disorders in women and steroid abuse in men to changing gender ideologies and roles at the Calgary Learned Societies Conference in June.

Several members of the Department of Economics also gave papers at the Learneds. Department chair Prof. Louis Christofides presented a paper on "Employment Patterns and Unemployment Insurance," co-authored by Prof. Chris McKenna. Prof. David Prescott and Bo Wandschneider discussed their work on "Public- and Private-Sector Wage Differentials in Canada." Prof. Asha Sadanand spoke on "Bargaining and Waiting." Also on the program was a paper by Prof. Venkat Sadanand, co-authored with David Nickerson of the University of Victoria, on "Strategic Foreign Investment and Endogenous Market Structure Under Exchange Rate Uncertainty." Asha Sadanand also chaired a conference session.

McDonald elected treasurer

Prof. Lynn McDonald, chair of the Department of Sociology and Anthropology, has been elected to a second two-year term as treasurer of the Social Science Federation of Canada.

Toxicologist joins Great Lakes board

Len Ritter, executive director of the Canadian Network of Toxicology Centres, has been named to the board of directors of the Great Lakes Pollution Prevention Centre. He recently returned from Ottawa, where he conducted the first half of a 10-day short course on "Hazard and Risk Assessment in Regulatory Toxicology" for 96 toxicologists with Health Canada. Other lecturers from U of G were Profs. Peter Little and Tony Hayes, Pathology, and Prof. William Black, Biomedical Sciences. □

Breast milk can be stored without destroying folate

by Margaret Boyd
University Communications

Working mothers who freeze breast milk for their babies don't have to worry about the process destroying an important B vitamin known as folate.

U of G studies have shown that short-term (less than a month) freezing of breast milk and the subsequent thawing and warming up of the milk do not affect folate content.

Folate is important during pregnancy and lactation and is involved in anabolic processes such as protein synthesis and cell division. Recent studies have shown a connection between folate deficiency and birth defects, especially if a deficiency existed in the first month following conception.

The study examined the effects of short- and long-term freezer storage and pasteurization on breast milk. For the study, breast milk was collected from 15 women at three different times.

The findings were mixed, says Prof. Deborah O'Connor, Family Studies. Long-term storage and pasteurization were found to affect folate, but short-term storage did not.

"It was clear that freezer storage will definitely affect folate content of milk if stored longer than a month," says O'Connor. If stored less than a month, then thawed and heated in a lukewarm water bath, the folate in the breast milk was unaffected. Microwaving also does not affect folate, although Health Canada cautions against microwaving because of "hot spots" in breast milk, she says.

Pasteurization, which kills microbiological contaminants, destroyed enough of the folate in breast milk to require supplementation. Pasteurization was studied because breast milk is beneficial for premature infants and difficult to obtain. In the past, hospitals banked donated breast milk, but most have discontinued the practice because of AIDS.

O'Connor recommends that women store breast milk at the back of a freezer and that each bottle be dated. The oldest should be used first.

This research was sponsored by the Natural Sciences and Engineering Research Council and is to be published in the journal *Nutrition Research*. □

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Ecology must be esthetic, says landscape architect

by Steve O'Neill
Office of Research

Is it "environmentally friendly" or is it just plain ugly? A U.S. landscape design expert says esthetic barriers are giving environmentally friendly landscapes a bad rap.

Joan Nassauer, chair of landscape architecture at the University of Minnesota, told a recent meeting of the Landscape Resource Group at Guelph and members of OAC that if landscape architects hope to find acceptance for their environmentally friendly designs, they must start paying greater attention to what the public finds esthetically pleasing.

"As we think about improving the ecological landscape," she said, "fundamental ideas about what people perceive as beautiful must be addressed."

Nassauer described a project she was involved with in Minneapolis to improve the quality of lake water. An environmental task force decided that establishing wetlands at the mouth of watersheds would be the most ecologically sound way to remove pollutants from the lake. But before the plan could reach the design stage, it was blocked by citizen groups.

"The public perception of wetlands was mosquito-infested swamps," she said.

Landscape architects must recognize such perceptions and design with them in mind, said Nassauer. To better understand how the public views its surroundings, she conducted "ethnographic" research — examining concepts of beauty from the point of view of people who actually

live with the landscape, rather than that of the planner.

By showing farmers and other rural residents photos and computer-generated images of various landscapes, then having the subjects rate them in order of preference, she was able to determine the qualities they found desirable.

"To farmers, stewardship equals beauty. Naturalness can be mistaken for lack of care, and designing for habitat value can be seen as messy."

Steps can be taken to overcome what Nassauer calls these "perceptual barriers." Patterned strip cropping, regular mowing and gardening can be used when they don't interfere with the landscape's habitat. Signs explaining that stewardship is in progress are sometimes helpful. "Designers should ask themselves how they make the landscape seem cared for," she said.

Some of the same principles can be applied to urban and suburban developments. In a parallel project with urbanities, Nassauer found that people favored orderly lawns and gardens, but were willing to accept many ecologically preferable plants as replacements for conventional ones. Compromises such as these are integral to designing ecologically sound landscapes, she said.

"These studies suggest that if we pay attention to the esthetic language of the people, we have a better chance of being accepted. By keeping in mind both ecosystems and what people like, we can build on human pleasure." □



Graduate student Nick Hill, left, and Prof. Nate Perkins surveyed rural residents of Huron County to learn what they consider esthetically pleasing in the countryside.
Photo by Trina Koster, Office of Research

Ruralites value traditional landscape

Lisa Chandler
Office of Research

Neat farms and wild forests — that's how some rural residents define environmental beauty.

In a Huron County survey, landscape architecture graduate student Nick Hill found that rural residents consistently favor orderly, managed farmsteads, roadsides and lakeshores, but prefer the opposite in places perceived as more "natural."

Hill, a practising architect for more than 25 years, showed photographs of 10 typical Huron County landscapes — including hedgerows, farmlands, forests and wetlands — to rural residents from each of the county's 16

townships. The goal of the project, which also involved Profs. John FitzGibbon and Nate Perkins, was to understand what rural residents consider esthetically pleasing in the countryside.

Five photos of each landscape type, ranging from very natural to very managed, were ranked by the residents in order of visual preference. Detailed discussions followed the rankings to shed light on their choices.

"Because a farming landscape is largely a functional landscape, there is a tendency for people to want the fields and hedgerows to be geometric and linear," says Hill.

On the other hand, river valleys and forests were preferred "grand

and wild — almost exotic."

These findings indicate that what rural people value in the landscape is shaped largely by their culture and the area's function, he says. This perception should be respected by planners and landscape architects, who sometimes emphasize ecological soundness instead of esthetic and cultural considerations, he says.

"Preserving the natural environment is important, but designers should remember that landscapes are the result of cultural expressions shaped over time. One hundred and fifty years of landscape heritage should not be overlooked." □

Arboretum, forest institute launch first Ontario tree atlas

by Tammy Grime
Office of Research

Ontario has no detailed record of the vast tree populations that are a vital part of its diverse ecological systems. But a joint effort by the Arboretum and the Ontario Forest Research Institute is about to change that.

Recognizing what it calls the Arboretum's "well-established programs relating to the ecological role of trees," including the gene bank collection of Carolinian species and various tree-growing workshops, the institute has awarded the Arboretum \$250,000 over five years to create an Ontario tree atlas.

The atlas will describe the abundance and distribution of the 85 tree species native to Ontario and possibly up to five established exotic species. Based on similar atlases about birds, mammals, reptiles and amphibians, the tree atlas will include pictures and descriptions of each species as well as maps identifying where the species grow.

Arboretum director Prof. Alan Watson says the atlas will provide a much better definition of the distribution of tree species in Ontario, particularly at the transition areas of the province's three forest regions: the Carolinian (deciduous) forest region, Great Lakes-St. Lawrence region and Boreal forest region.

Based on archival material, historical information about the abundance and distribution of trees in the past may also be included. Researchers can then try to explain the changes that have occurred.

Watson underlines the importance of an Ontario tree atlas. "It's a snapshot in time providing a basis for research in the future," he says. "Such a record may help us understand climate changes and their effects on forest regions, as well as ecological problems now and in the future."

He predicts the atlas will be a

valuable research tool and resource for graduate students and government organizations, and may provide a basis for future forest conservation policies. The finished project will also include a published computer database. The project will involve hundreds of people across Ontario, starting with volunteers who will devote three years to data collection. These volunteers will be recruited from horticultural societies, field staff of the Ministry of Natural Resources, conservation authorities and field naturalist clubs.

The volunteers will be given

several 10-square-kilometre plots of land to cover. Watson estimates it will take five or six visits to accurately survey each plot. "In comparison with other surveying projects, however, trees are relatively easy to study," he says. "They can be surveyed all year round, in any season."

Through the Arboretum's extensive education program, regional training workshops for the volunteers will be organized, highlighting surveying techniques and tree identification.

The \$250,000 in funding will buy computer equipment and

cover production and advertising costs and other miscellaneous expenses. Most important, the money will pay for a project coordinator to organize and head the project. Work on the atlas will begin later this month when a coordinator is hired.

Watson hopes the idea will spread to other provinces, eventually resulting in an inventory of all Canada's trees. "This would provide a great basis for ecological research country wide," he says. "After all, trees are symbolic of Canada." □

Explore 'green' frontiers at Elora's Pasture '94

What makes animal pastures environmentally friendly? Find out at Pasture '94, a field day at the Elora Research Station July 23.

Pasture '94 will bring together farmers, researchers from U of G and other institutions, representatives from industry and interested members of the public for a day of informal workshops and information exchange.

A main focus of the event will be the ecological nature of research related to pasture management, says Prof. Jock Buchanan-Smith, Animal and Poultry Science, one of Pasture '94's co-ordinators.

"People are becoming more and more environmentally aware," says Buchanan-Smith, "and I think it's important that the public see what we're doing for the environment and get directly involved."

Some of the U of G research that participants will hear more about at the event are:

- a water-course management system at the research station — a work in progress that is creating an "ecological niche" around a stream that flows through the facility;
- a pasture-management system that, by growing legumes along with grass for grazing purposes, helps cattle farmers increase productivity; and
- the environmental farm plan, an industry-backed initiative to make farms more ecologically sound.

Buchanan-Smith says Pasture '94 was conceived as an interactive experience. So rather than sitting through formal lectures, participants will see first hand the different types of

pasture-management techniques and related work, and talk with those whose research and input lead to new developments in those fields.

The day will also feature wagon tours of the research station and displays by local industries of products and services such as fencing and watering systems.

Pasture '94 is organized by U of G, the Ontario Ministry of Agriculture, Food and Rural Affairs and the Ontario Cattlemen's Association. Everyone is welcome to attend the event, which runs from 9:30 a.m. to 4 p.m. Admission, which includes refreshments, lunch and entertainment, is \$10 per person or \$30 per family. Parking will be available. The rain date is July 24. □

HAFAs celebrates 25 years



The three faculty who have served as director of HAFAs gathered for a photo at spring convocation in 1987. From left are Prof. Michael Nightingale, who became dean of

FACS July 1; founding director George Bedell, now retired and living in Maine; and Prof. Tom Powers. Current acting director is Prof. Michael Hayward.

For many, it seems like only yesterday that the School of Hotel and Food Administration opened the doors to its first students. The quarter-century since then has seen many changes in the school and across the hospitality industry. On these pages, At Guelph looks at how HAFAs began, the road it has travelled and what the future may hold.



The School of Hotel and Food Administration was born 25 years ago, the result of a national campaign by the hospitality industry to meet a need for trained management personnel with a focus on the domestic market.

Until HAFAs welcomed the first 26 students into its four-year B.Comm. program in 1969, any Canadian wanting a career in the hospitality industry was forced to look outside the country — usually Europe or the United States — for management education at a university level.

But the time had come for a change. "On a long-term basis, we cannot rely upon obtaining qualified graduates from American colleges," Allan Baker told industry representatives in 1968 as he urged them to get behind a fund-raising program for the school. Baker, then president of Versafood Services, one of Canada's premier food companies, was named chair of U of G's Hospitality Industry Founders' Fund, which was launched at the 1968 Canadian Restaurant Association Restaurant Show in Toronto.

HAFAs was not intended to be a training ground for young chefs or front-line hospitality staff. Instead, building on U of G's solid reputation for research in food science and food management, it aimed to produce graduates who would become managers with an understanding of the problems and limitations of their facilities, a knowledge of production techniques and skills in staff relations.

Soon after Board of Governors formally established HAFAs July 1, 1968, the Hotel Association of Canada endorsed the move and appointed provincial fund-raising chairs in British Columbia, Alberta, Saskatchewan, Manitoba, Ontario and New Brunswick. The restaurant and hotel industries were among the first of several national groups representing travel, tourism, industry suppliers and food processors to help meet the fund-raising goal of \$1.15 million for buildings, equipment, scholarships, research and special operating funds.

The success of the industry drive was quickly evident. Within a year, the Founders' Fund had

raised more than \$600,000.

The school opened with Prof. George Bedell as founding director. Over the next 10 years, he shaped the undergraduate program and left a firm foundation on which to build postgraduate and industry management development courses and programs.

The school began with one major — hotel and food administration, with courses related to the management of accommodation and food-service facilities for the public. In 1978, a second major in institutional food-service management was added to educate potential administrative dietitians in

over the next four years. Since then, HAFAs's scholarship program has grown steadily with industry support.

By 1975, industry had provided a total of \$1.3 million for HAFAs, \$895,000 of which was used to build and furnish a new facility. That fall, more than 300 students walked through the entrance of the new Macdonald Stewart Hall. The building was officially opened Oct. 25, 1975, by David Macdonald Stewart, president of the Macdonald Stewart Foundation.

Almost 20 years later, the hospitality industry is still helping to

two to four days a week for eight weeks during the fall and winter semesters, the restaurant is run entirely by students doing everything from deciding on the menu to serving the customers.

Getting "real experience" was also the goal when early HAFAs students launched an informal work program involving part-time and summer work in industry.

The first graduating class in 1973 also began a tradition that remains a vital part of the school — a student club that sponsors an annual careers seminar. Several graduates from the previous year return to "tell it like it is" in the

by more than 200 senior executives. AMPHI and the Hospitality Management Development Course complement the degree program and incorporate case studies and other material used by undergraduates.

To support the range of HAFAs's educational programs, case studies have become an increasingly important teaching tool in all programs, making the school a leader in case development and case teaching. HAFAs-developed teaching resources have been adopted by faculty on many other North American campuses.

In recent years, the school's informal work program has evolved into one of the strongest co-operative education programs on campus. HAFAs's co-op program began officially in 1992 with 19 students and continues to grow.

Also in 1992, with Prof. Michael Nightingale at the helm as director, HAFAs introduced the first master's degree in hospitality management in Canada. The master of management studies program began with an enrolment of six students, two of whom were HAFAs graduates. Numbers are expected to reach between 15 and 30 this fall.

There are also plans to introduce a specialist "non-traditional" MBA in hospitality management in 1995 for people working in the industry.

The growth in HAFAs's programs has been matched by the development of its faculty. When Nightingale arrived in 1987, only two of the 10 faculty members had Ph.D.s. Now half of them do and, within two years, two-thirds will have completed doctorates.

It was also in 1992 that HAFAs launched a semester-abroad program in France. About 30 students and two faculty take part in the program, which consists of a semester on the campus of L'université Canadienne en France at Villefranche-sur-mer.

Other innovations include an executive-in-residence program supported by the Alma Mater Fund. The program brings top members of the hospitality industry to the school for a week to offer insights into management and operations. □



operation of food services, primarily in the health-care and institutional sectors.

The first scholarship in HAFAs was endowed with \$50,000 from the proceeds of a dinner for Florence Georgina Montgomery, research and education director of the Canadian Restaurant Association. She worked for 12 years to help U of G establish HAFAs.

The Montgomery Scholarship was first awarded in 1969 to Wendy Barrell of Willowdale, who received a total of \$1,000

lay bricks and mortar at HAFAs — this time with contributions towards the planned \$2.4-million two-storey FACS addition to improve research and teaching facilities. Major donors include Cara Operations, J.M. Schneider Inc. and Nestlé Canada.

With the move into its new building in 1975, HAFAs launched a restaurant to give third-year students in the food-services operations management course a chance to apply the theory they learn in the classroom. Operating

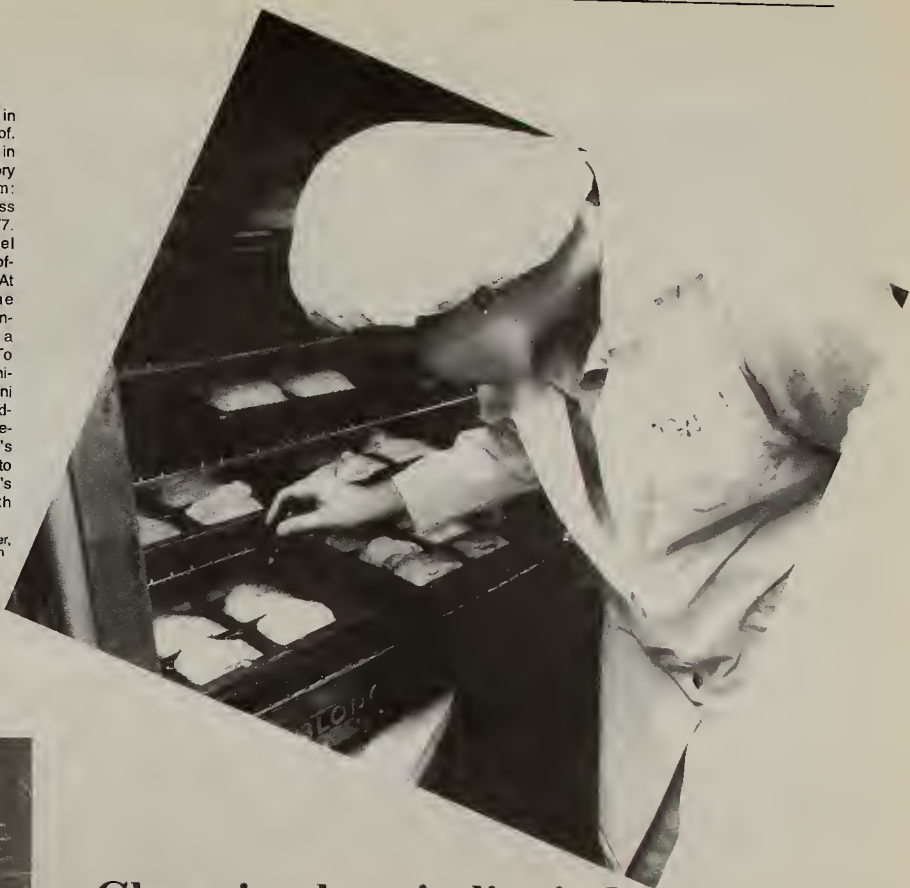
industry.

These programs were developed by Prof. Tom Powers, who served as director of the school from 1979 to 1987.

During Powers' tenure, HAFAs expanded its educational role and began offering continuing education programs for senior executives and middle managers in the hospitality industry. In 1983, the school offered the first Advanced Management Program for the Hospitality Industry (AMPHI), which has since been completed

The history of HAFA unfolds in these photos. At far left: Prof. Tony Marston with students in the food-production laboratory in 1971. Below, bottom: Barbara Wackley leads a class in institutional interiors in 1977. Below, top: Prof. Michael Haywood discusses front-office administration in 1981. At right: Student Suzanne Gagnon checks out the cornbread she's preparing for a HAFA restaurant in 1987. To mark the school's silver anniversary, HAFA and its alumni plan a series of events, including a careers' night, lecture series and gala. The school's student council has arranged to sell two Henry of Pelham's award-winning wines with HAFA's own distinct label.

Photos by Herb Rauscher, Martin Schwalbe and Ken Barton



Changing hospitality industry shapes programs of the future

The hospitality industry is changing and the School of Hotel and Food Administration is changing along with it, says Prof. Michael Nightingale, who recently became dean of FACS after a seven-year stint as director of HAFA.

Corporations are becoming flatter, creating pressures on students in the hospitality field to develop entrepreneurial skills and start their own businesses, he says.

Significant changes in the hospitality industry labor force, especially cuts in staffing, mean that students and the courses HAFA offers to them must be flexible and on the lookout for economic opportunities, he says.

Because today's consumers are constantly on the search for greater value, personal service has regained importance in the marketplace, a radical change from the 1980s, Nightingale says. Value-conscious consumers are moving the hospitality industry into what he describes as "high tech and high touch." In other words, they're being forced to make better use of today's technology.

"There's a continual challenge to say: 'How can we increase the perceived value of this product and improve the quality without providing services that belong to an ancient time?'" The challenges are coming quickly and much faster than expected, he says.

Nightingale sees a number of other trends that HAFA will need to consider in meeting the future needs of its students:

- The senior citizen market will become increasingly significant in terms of leisure, eating out and the introduction of unique services like nursing home operations within the accommodation industry.
- In the Canadian lodging industry, a few large internationally known brands will emerge. "Some of those will be self-managed, but I also see a massive growth in franchising," he says. That's already the norm in the United States, where more than 50 per cent of hotels are marketed as part of a chain. Here in Canada, the figure is less than 10 per cent.
- There will be continued growth of food-service chains, but with it will come a resurgence in regional cookery and restaurants featuring Canadian cooking.

Whatever the future holds for the hospitality industry, HAFA will continue to develop students' skills through high-quality research and educational programs that address identified needs, Nightingale says.

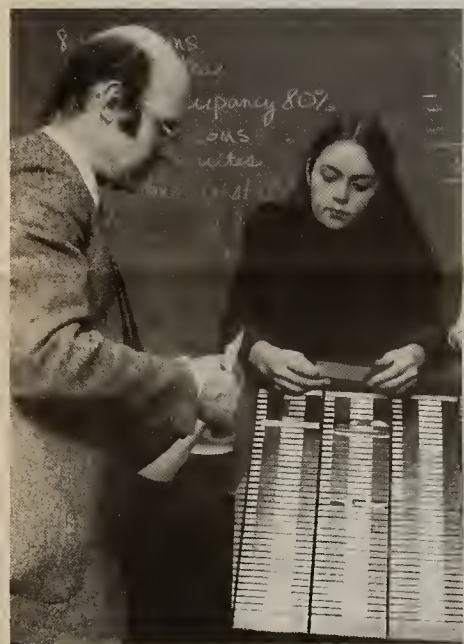
Will students be taught in classrooms, the workplace or from their homes? That's a question that remains to be answered, but the evidence points toward the creation of a community of learning without walls.

This will give people on the job an opportunity to obtain professional certificates, diplomas and degrees, he says. "So we will see a move from just educating people out of high school to lifelong learning."

With the fast-paced changes in the industry, "the school must be seen to be providing whatever is necessary to industry for them to move forward," he says.

Nightingale predicts the type of student coming to HAFA will also change in the future, a change that is already in transition. More mature students are entering the undergraduate program from the hospitality industry rather than high school. That means the age of students is rising, bringing the wisdom of more individual workplace experiences to enhance the learning environment in the school, he says.

In the classroom itself, experiential learning will become increasingly important, says Nightingale. The case method of teaching, for example, has brought a new awakening, giving students a structure to allow them to share knowledge, he says. □



RESEARCH AWARDS

Prof. **Ann Clark**, Crop Science, received \$10,000 from Agriculture and Agri-Food Canada's Green Plan for "Preparation of a Literature Review of Alternative Methods to Restrict Livestock Access to Waterways." Prof. **Paul Voroncy**, Land Resource Science, received \$3,600 to study the "Effects of Tillage and Crop Rotation on Soil Organic Matter."

Prof. **Richard Protz**, Land Resource Science was awarded \$19,000 from Agriculture and Agri-Food Canada's contribution agreement for his work on "Soil Organisms as Bioindicators of Agronomic Practices—GP Project."

The Agriculture and Agri-Food Canada and Natural Sciences and Engineering Research Council (NSERC) Research Partnerships Support Program has provided the following support:

- \$28,000, matched by the Ontario Turfgrass Research Fund with \$7,000, to Prof. **Greg Boland**, Environmental Biology, for "Biological Control of Dollar Spot with Hypovirulent Strains of *Sclerotinia Homoeocarpa*." This project also received \$5,500 from the Guelph Turfgrass Institute (GTI).

- \$48,000, matched by Dow Elanco with \$20,000, to Prof. **Austin Fletcher**, Environmental Biology, for "Establishment, Protection and Production of Major Canadian Crops Under Environmental Stress Conditions."

- \$48,000 to Prof. **John Gibson**, Animal and Poultry Science, for "Optimizing Breeding Program Design Balancing Response and Risk." Gibson also received \$38,018 from the Dairy Bureau of Canada for this project and \$51,000 from Shaver Poultry "To Develop Practical Simulation Software for Modelling Primary Breeding Programs Appropriate for PC- and/or RISC-Based Hardware."

- \$98,000, matched by Dow Elanco with \$33,250, to Prof. **Chris Hall**, Environmental Biology, for "An Immunochemical Approach for the Evaluation of Acetyl Coenzyme-A Carboxylase Inhibitors and Biochemical Characterization of the Herbicide Target Site." Hall also received \$4,000 from the GTI for "Non-Chemical Alternatives to Herbicides" and \$102,000 from NSERC's industrial research program for "Development of Monoclonal and Polyclonal-Based Immunoassays for Detection and Quantitation of Pesticides."



- \$90,000, matched by Brewing and Malting Barley Research Institute with \$45,000, to Prof. **Ken Kasha**, Crop Science for "Microsatellite DNA Analysis of Barley for Cultivar Identification." Kasha was also awarded \$20,000 U.S. from Ciba Seeds for his work on "Microspore Culture for Haploid Production in Corn."

- \$48,000, matched by the Canadian Association of Animal Breeding with \$36,000, to Prof. **Allan King**, Biomedical Sciences, for the project "Oocyte and Embryo Response to In Vitro Stress."

- \$80,000, matched by Sea/Illco with \$40,000 and \$9,000 in kind, to Prof. **Wayne Martin**, Population Medicine, to study the "Effects of Sour Gas Emissions on Health and Productivity in Alberta Beef and Dairy Herds."

- \$20,000, matched by Ralston Purina with \$20,500, to Prof. **Brian McBride**, Animal and Poultry Science, for "Establishment of the Ideal Amino Acid Pattern for Milk Protein Production in Dairy Cows."

- \$48,000, matched by the Ontario Bean Production Marketing Board with \$138,000 and the Ontario Colored Bean Production Marketing Board with \$12,000, to Prof. **Tom Michaels**, Crop

Science, for "Integration of Conventional and Biotechnological Approaches to Bean Improvement."

- \$120,000, matched by Richter's Herbs with \$75,000 and \$10,000 in kind, to Prof. **Praveen Saxena**, Horticultural Science, for "Development of Synthetic Seed Technology for Culinary Herbs."

- \$30,000, matched by Maple Leaf Foods (Shur-Gain) with \$15,000 and \$10,000 in kind, to Prof. **Trevor Smith**, Nutritional Sciences, to study the "Effect of Dietary Putrescine on Nutrient Absorption and Utilization in Sheep."

- \$32,000, matched by Alltech Canada with \$5,900 and by the Ontario Chick Producers Marketing Board, the Ontario Egg Producers Marketing Board and the Poultry Industry Centre with \$8,000, to Prof. **Jim Squires**, Animal and Poultry Science, for his work on "Use of Supplementary Chromium for Livestock."



- \$26,500, matched by the Ontario Egg Producers Marketing Board with \$8,250 and the Poultry Industry Centre with \$5,000, to Prof. **Jean-Pierre Vaillancourt**, Population Medicine, to study "Hepatitis/Liver Hemorrhage Syndrome in Commercial Laying Hens."

- \$90,000, matched by the Ontario Soybean Production Marketing Board with \$15,000, to Prof. **Jack Tanner**, Crop Science, for "Research on the Development of Alternative Crop and Livestock Species and Non-Traditional Agricultural Products."

- \$90,000, to Prof. **Bruce Wilkie**, Veterinary Microbiology and Immunology, for "A Genetic Approach to Improved Animal Health: Field Evaluation of High Immune-Response Pigs." Wilkie also received \$117,098 from Pig Improvement Canada Ltd. for this project.

- \$180,000, matched by the Canadian Horticultural Council with \$150,000, to Prof. **David Wolyn**, Horticultural Science, for his work on "Genetic Improvement of Asparagus." This project also received \$50,000 from CHC.

Spare Seeds awarded \$81,969 to Profs. **Steve Bowley** and **Bryan McKersie**, Crop Science, for "Application of Somatic Embryogenesis in Turfgrass."

In the Department of Land Resource Science, U of G's Centre for Toxicology has provided \$17,800 to Prof. **Graeme Spiers** for a "UV System Equipment Upgrade for ICP-AECS Facility" and \$19,100 to Prof. **Les Evans** for the project "Modelling Chromium Retention by Soils."

World Wildlife Fund/CNTC/CT awarded \$30,000 to Prof. **Paul Hebert**, Zoology, to study "The Mutagenic Impacts of Contaminant Exposure." Hebert also received \$4,500 from NSERC to work with the division of fisheries in Tasmania on a project called "Evolution of Australian Daphnia: A Genetic Perspective."

The Canadian Turfgrass Research Foundation awarded \$20,000 to Prof. **Tom Hsiang**, Environmental Biology, for his work on the "Control of Grey Snow Mould with *Typhula Phacorrhiza*." He also received \$7,500 from the GTI to study "Resistance to Demethylation-Inhibiting Fungicides in Ontario Turfgrass Pathogens."

The Food Systems 2002 program of the Ontario Ministry of Agriculture, Food and Rural Affairs awarded Hsiang \$10,700 for the project "Incidence and Impact of Juniper Twig Blight in Ontario" and \$16,000 for the "Occurrence of Pythium Root Rot on Turfgrass in Ontario."

GTI awarded \$4,000 to Prof. **Paul Gondwin**, Environmental Biology, for "Biological Control of Annual Bluegrass."

In the Department of Zoology, Environment Canada's Canadian Wildlife Service awarded \$2,000 to Prof. **Tom Nudds** to study "The Role of Common Eiders as Members of an Intertidal Community" and \$2,000 to Prof. **John Fryxell** for his work on "Foraging Dynamics of Wood Bison."

NSERC's research abroad program awarded \$4,800 to Prof. **John Leatherland**, Zoology, to work on "Development of Methods to Study T3 Receptor Gene Expression in Salmonid Fishes" at the University of Reading in England. He also received \$5,000 from the NSERC and Department of Fisheries and Oceans science subvention program for "Regulation of Growth-Hormone Secretion in Rainbow Trout."

This science subvention program also provided the following support:

- \$10,000 to Prof. **David Gaskin**, Zoology, for "Modelling the Interface Between Groundfish Gill Nets and Harbor Porpoise Distribution and Movement Patterns."

- \$5,000 to Prof. **Bill Woodward**, Nutritional Sciences, to study "Dietary Myo-Inositol Requirements of Young Rainbow Trout."

- \$8,000 to Prof. **Roselynn Stevenson**, Microbiology, for "Detection of Fish Pathogens in Aquatic Environments."

Prof. **Al Weersink**, Agricultural Economics and Business, was awarded \$18,400 by Environment Canada and NSERC for "Controlling Agricultural Water Pollution Under Uncertainty."

Exxon Chemical Company has provided Prof. **Elmer Alyea**, Chemistry and Biochemistry, with \$24,000 for his work on "MOVS Catalysts for the O-Xylene to Phthalic Anhydride Conversion."

Prof. **Glen Van der Kraak**, Zoology, received \$15,000 from the Department of Fisheries and Oceans for "Development of a Protocol Manual for In Vitro Assay of Fish Steroid Production."

The Gatorade Sports Science Institute awarded \$5,471 U.S. to Prof. **Larry Spriet**, Human Biology, to study the "Importance of Carbohydrates During Exercise."

The Hospital for Sick Children Foundation has provided \$69,443 to Prof. **Ron Ball**, Animal and Poultry Science, for his work on the "Improvement of Neonatal TPS via Development of a New Method for Determining Amino Acid Requirements."

Prof. **Richard Zytner**, School of Engineering, was awarded \$9,200 by the Institute for Chemical Science and Technology for the project "Gasoline Volatilization from Wet Soil."

The Kidney Foundation of Canada awarded \$40,000 to Prof. **Janet Wood**, Microbiology, for her work on "Osmoregulation of Virulence in Uropathogenic *Escherichia Coli*."

Prof. **John Prescott**, Veterinary Microbiology and Immunology, received \$1,600 from the Medical Research Council to study "Pathogenesis of and Immunity to *Rhodococcus Equi Pneumonia* in Foals" in Argentina.

Prof. **Alan King**, Biomedical Sciences, received \$12,000 from the Metro Zoo for "Fellowship for the Cryopreservation of Canine Semen."

The National Cancer Institute of Canada has provided the following support:

- \$9,171 to Prof. **David Josephy**, Chemistry and Biochemistry, for his work on "Ellagic Acid and Analogues: Chemopreventive Agents." NCI also provided him with \$36,197 to extend his project "Aromatic Amines."

- \$24,328 to Prof. **Alan Mellors**, Chemistry and Biochemistry, for "Applications of an O-Sialoglycoprotease in Bone Marrow Transplant and Tumor Cell Studies."

- \$81,457 to Prof. **Frances Sharom**, Chemistry and Biochemistry, to study the "Role of the P-Glycoprotein in Multi-Drug Resistance."

National Rubber awarded \$13,050 to Prof. **Pieter Groeneveld**, Land Resource

Science, for "Exploring the Utilization of Used Materials."

The Social Sciences and Humanities Research Council provided the following support:

- \$15,630 to Prof. **Stan Barrett**, Sociology and Anthropology, for the project "Gender and Violence in Corsica."

- \$41,000 to Prof. **Sid Gilbert**, Sociology and Anthropology, to study "Factors Leading to Early Labor-Market Success of University Graduates: Longitudinal Analyses."

- \$30,000 to Prof. **Merwan Engineer**, Economics, for "Models of the Transportation Demand for Money and Demand Deposits."

- \$28,000 to Prof. **Terry Crowley**, History, for a project entitled "Cockshutt: Business, Labor and Community in Canada."

- \$60,083 to Prof. **Neil MacKinnon**, Sociology and Anthropology, for "Further Research in Affect Control and Identity Theory in Sociological Social Psychology."

- \$2,400 to Prof. **Michael Ruse**, Philosophy, for the project "Evolutionary Biology and Values."

- \$10,000 to Prof. **Jo-Marie Powers**, HABA, for "A Bibliography of Cookbooks Published in Canada before 1950."

- \$37,500 to Prof. **Calum Turvey**, Agricultural Economics and Business, for "Efficiency and Equity Considerations in Agricultural Insurance."

- \$17,000 to Prof. **Helen Saradi-Mendelovici**, Languages and Literatures, for her work on "The Byzantine Cities in the Sixth Century A.D."



- \$90,000 to Prof. **Doug Killam**, English, for "A Companion to African Literature in English."

- \$25,000 to Prof. **Michael Hoy**, Economics, for "Measurement of Income Inequality: Incomplete Property Rights of Third World Urban Dwellers and Welfare Economics of Asymmetric Information."

- \$45,000 to Prof. **Karen Finlay**, Consumer Studies, for "The Systematic Identification of Factors That Interact with Incongruence to Facilitate High Levels of Recall and Positive Evaluations from Communications."

- \$45,000 to Prof. **Alun Joseph**, Geography, for the project "Aging Population and Restructured Services: The Rural Community Nexus."

- \$52,500 to Prof. **Kris Inwood**, Economics, to study "Industrial and Demographic Change in Eastern Canada, 1859-1920."

- \$75,000 to Prof. **Dan Yarmey**, Psychology, for his work on "Eyewitness and Earwitness Testimony: Accuracy and Credibility."

In the Department of Environmental Biology, the Ontario Beekeepers' Association has provided \$7,500 to research associate **Medhat Nasr** for a "Mite Resistance Technology Transfer Project" and \$40,000 to research associate **Tibor Szabo** for work on "Varroa Mite Resistance."

Prof. **Larry Peterson**, Botany, received \$5,000 from the Ontario Heritage Foundation for "Tissue Culture of the Small White Lady's Slipper Orchid."

Prof. **Wayne Howard**, Agricultural Economics and Business, was awarded \$6,000 by Ontario Pork for "An Evaluation of Price Discovery Systems in the Ontario Swine Industry."

Phillips Morris Co. awarded \$10,000 U.S. to Prof. **Ken Mullen**, Mathematics and Statistics, for his work on "Pricing Models." □



From left are Don McIntosh of Teaching Support Services, Virginia Gray of Continuing Education, Delta Centre CEO Mark Reno and Dennis Manarey, chair of the board of Guelph Tool and Die.

Photo by Trina Koster, Office of Research

Learning technology centre builds bridges to the future

by Steve O'Neill and
Andres Kahar
Office of Research

Launched by U of G two years ago and located in the Research Park a little over a year later, the Delta Centre for Learning Technologies is now an independent business and labor-led corporation.

It was quick to establish itself as a nationally focused resource centre and an axis for technology-assisted learning systems, information networking, research and business consultation.

A tenant in the Research Park Centre since last fall, Delta (formerly the Institute for Instructional Technology) has recently expanded in size, to 4,000 square feet of space on the third floor of the centre. That's a rarity in an economy where more doors seem to be closing than opening.

Why is Delta different? Virginia Gray, director of Continuing Education and a member of Delta's board of directors, says it's because the centre is a "totally new concept. This collaboration among the University, government, business and labor to create a national resource to enhance the quality of learning for and within the workplace is unique."

The origins of Delta stretch back to early 1992, when then U of G president Brian Segal recog-

nized the need for specialized training for an increasingly technological society.

Along with Gray and Don McIntosh of Teaching Support Services, Segal approached several local business representatives and gained enough support to form a steering committee to develop a centre that could prepare Canadians for the technological age. The idea was soon embraced by local business, industry and labor.

Profs. Fred Evers and Sid Gilbert of the Department of Sociology and Anthropology were secured as consultants to write a research plan; that proposal was ultimately accepted by the National Innovations Advisory Committee of Employment and Immigration Canada (now Human Resources and Development) in February 1993.

"To receive the government funding, we had to clearly demonstrate our potential value as a centre for generating knowledge and nurturing a learning culture," says Gray. "The committee was able to see that we have an exciting initiative — partners and a management team working together to create a real recipe for success."

The Delta Centre's goal is to become the premier Canadian resource centre in learning technologies. To that end, the main focuses of its activities include:

- researching and assessing the leading available learning technologies and products;
- offering consulting services to help clients effectively apply learning technologies to match their specific needs;
- connecting end users with suppliers of services related to the applications of learning technologies; and
- providing education and training to develop and enhance skills in applying the best available learning technologies.

Dennis Manarey, chair of Delta's board of directors, says the centre's location will figure largely in its success.

"Here at the Research Park, we're not only fortunate enough to have wonderful facilities that are centrally located within the Technology Triangle, but we're also right next door to the University of Guelph, one of our important partners, with whom we'll be working shoulder to shoulder," he says.

That association will play a key role in Delta's "mission of fuelling technological training, research and the spread of information in Canada," says Manarey. "We're here to build bridges to the future." □

The Research Park Centre is now renting space in Phase 2, which is under construction. For leasing information, call Mattei Realty Ltd. at 836-8060.

Environmental research earns record support

More jobs, more research, more environmental understanding — that's the bottom line from this year's Environmental Youth Corps (EYC) program, which will see U of G faculty receive close to \$320,000. The total is \$52,000 more than last year and represents a 69-per-cent success rate for applications.

Funded by the province, EYC has a mandate to employ people aged 15 to 24 in projects that contribute to environmental conservation and protection, provide skills training and seek to develop an environmentally conscientious culture. Environmental researchers who employ young people can apply for government support through EYC.

This year, a record 42 of the 61 proposals submitted by U of G received the green light. Thirty-four faculty in 11 departments — teamed up with 63 students — will take part in EYC-supported research.

EYC is administered by five provincial ministries — Agriculture, Food and Rural Affairs (OMAFRA); Natural Resources; Environment; Northern Development and Mines; and Tourism and Recreation. The funded projects follow:

Ontario Ministry of the Environment

- "Continuation of the Environmental Survey of the Arboretum Nature Reserve" — Chris Earley, Arboretum.
- "An Invertebrate Index for Identifying and Quantifying Environmental Impacts" — Prof. Gerry Mackie, Zoology.
- "Assessment of an Afforested Riparian Zone for Mitigation of Non-Point-Source Agricultural Pollution" — Prof. Andy Gordon, Environmental Biology.
- "Zooplankton and Water Quality" — Prof. Paul Hebert, Zoology.
- "Educational Assistant for Gosling Wildlife Gardens Programs" — Donna MacWilliam, Arboretum.
- "Wildlife Disease Surveillance" — Prof. Ian Barker, Pathology.
- "Statistical Models for Environmental Factors in Aquatic Systems" — Prof. John Hubert, Mathematics and Statistics.

OMAFRA

- "Assessment of Environmental Effects on Genetic Diversity and Resistance of Alfalfa Stands" — Prof. Peter Pauls, Crop Science.
- "Genetic Engineering of Pest Resistance in Tobacco and Tomato" — Prof. Larry Erickson, Crop Science.
- "Fertilizer Use in Potatoes" — Prof. Tahir Ali-Khan, Horticultural Science.
- "Mite-Resistant Honeybee Stock Performance" — Prof. Cynthia Scott-Dupree, Environmental Biology.
- "Measurement of Nitrous Oxide in Agricultural Soils" — Prof. Eric Beauchamp, Land Resource Science.
- "Conventional Low-Input and Organic Cash-Cropping Systems" — Prof. Dave Hume, Crop Science.
- "Reduced-Input Corn Breeding" — Prof. Lyn Kannenberg, Crop Science.
- "Measuring Declines in Soil Quality" and "Winter-Cover Legume N-Mineralization and Potential for Contamination of Water Bodies" —

Prof. Bev Kay, Land Resource Science.

- "Environmental Enhancement Through Increased Nitrogen Use Efficiency" — Prof. Tony Vyn, Crop Science.
- "A Study of Factors Affecting the Efficacy of Honeybees" — Prof. Peter Kevan, Environmental Biology.
- "The State of Compaction in Ontario Agricultural Soils" and "Utility Construction Impacts" — Prof. Ray McBride, Land Resource Science.
- "Monitoring Aster Yellow to Improve the Lettuce IPM Program" — Prof. Paul Goodwin, Environmental Biology.
- "Agmet Resource Centre Data Quality-Control Technician" — Prof. George Thurtell, Land Resource Science.

Ontario Ministry of Natural Resources

- "Mixed Fishery Analysis of Great Lakes Walleye" — Prof. Moira Ferguson, Zoology.
- "Ecological Investigation of the Aquatic-Terrestrial Interface in a Headwater Lake" — Prof. Andy Gordon, Environmental Biology.
- "Ecology and Impact of Avian Wildlife Diseases" — Prof. Sandy Middleton, Zoology.
- "The Effect of Velocity Barriers on Fish Migration" — Prof. Bill Beamish, Zoology.
- "Conservation Genetics of Brook Charr" — Prof. Roy Danzmann, Zoology.
- "Population Ecology and Conservation of Northern Populations of Turtles," "Conservation of Spotted Turtles on Loon Island in Georgian Bay," "Amphibian Populations in Algonquin Provincial Park," "Population Dynamics and Habitat Selection in Small Mammals" and "The Conservation and Biology of the Endangered Blue Racer Snake on Pelee Island" — Prof. Ron Brooks, Zoology.
- "Biological Damage and Recovery from Lake Acidification" — Prof. Paul Hebert, Zoology.
- "Factors Affecting Reproductive Success in *Asclepias Syriaca*, a Noxious Weed" — Prof. Peter Kevan, Environmental Biology.
- "Ontario Tree Atlas Project" — Henry Kock, Arboretum.
- "Niagara Escarpment Project" — Prof. Doug Larson, Botany.
- "Growth Spawning and Thermal Tolerance in Rainbow Trout" — Prof. Ian McMillan, Animal and Poultry Science.
- "Effects of Fire and Deer Browsing on Vegetation at Pinery Provincial Park" — Prof. Kyoko Miyaniishi, Geography.
- "Brook Trout Age and Growth as Determined by Otoliths and RNA/DNA Ratios" — Prof. David Noakes, Zoology.
- "Black Bear Blood Data Bank" — Prof. Patricia Wright, Pathology.

Ministry of Northern Development and Mines

- "Acid Mine Drainage of Peat/Wood Wastes Amelioration" — Prof. Graeme Spiers, Land Resource Science.
- "Acid Mine Drainage — Electrochemical Amelioration" — Prof. Ward Chesworth, Land Resource Science. □

OUR COMMUNITY

NOTICES

Funding info

An information meeting for animal researchers interested in obtaining or maintaining support from the Ontario Ministry of Agriculture, Food and Rural Affairs will be held July 28 from 1:30 to 4 p.m. in Room 1714 of the OVC Learning Centre. Discussion will focus on 1994/95 resources, registering projects, FTE variances and species programs.

A calypso summer

Celebrate summer at the University Club's Caribbean buffet July 22. The Pan Waves Steel Drum Calypso Band performs. Cost is \$20 plus taxes. Tickets are available at the club office or by calling Ext. 8578.

Volunteers needed

The Victorian Order of Nurses needs volunteers who can spend two to four hours a week with socially isolated individuals. The VON volunteer visiting program works to alleviate the isolation, loneliness and depression of clients. If you can help, call Connie or Lisa at 822-5081.

Toys and tractors

Love big machines? Visit the Ontario Agriculture Museum's Great Canadian Antique Tractor Field Days July 16 and 17. At the same time, see the farm toy sale and show.

Repayment plan

A symposium to explore the viability of an income-contingent repayment plan for student loans will be held Sept. 22 and 23 at Queen's Park. It's sponsored by the Ministry of Education and Training, the Council of Ontario

Universities and the Association of Colleges of Applied Arts and Technology of Ontario. Cost is \$150 general, \$50 for students. Call Catherine Drea at 416-326-2461 for more information.

The art of donating

The AIDS Committee of Guelph and Wellington County invites artists to donate their works for the third annual "A Day with Art" Sept. 24. Donations may be made July 24 from noon to 9 p.m. and July 25 from 8:30 a.m. to 9 p.m. at the committee offices at 264 Woolwich St. The September auction begins at 8 p.m. at the Arboretum.

Nominees sought

The Department of Indian Affairs and Northern Development seeks nominations for the Centenary Medal, which recognizes people who have made distinguished contributions to Northern Canada through scientific knowledge and its applications. Application forms are available from the Northern

Science Award Selection Committee, Sectoral Policy Division, Room 901, Indian and Northern Affairs Canada, Ottawa K1A 0H4.

OCUFA names president

Emily Carasco, a law professor at the University of Windsor, is the new president of the Ontario Confederation of University Faculty Associations (OCUFA). Carasco is OCUFA's 23rd president.

Help at Homecoming

Anyone interested in helping out at Homecoming Weekend activities is invited to a meeting July 25 at 7 p.m. at Alumni House. □

JOBS

As of *At Guelph* deadline July 8, the following opportunities were available:

General Accountant, Financial and Administrative Services. Salary range: \$33,783 minimum, \$39,695 normal hiring limit, \$42,229 midpoint.

Temporary Assistant, Workshop Co-ordinator, Ontario Africa Working Group, six-month temporary position beginning in August. □

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1984 Honda Accord hatchback, blue, five-speed, moon roof, Paul, Ext. 4082 or 766-1008 evenings.

Suzuki Sidekick soft top, new, 821-1893.

Vanilla, French vanilla and chocolate-orange ice cream, Helmut, Ext. 3062.

Guinea pig pups to good home, born May 2, Ian, 837-3879.

Female Burmese python, two years old, six feet long, includes heat rock and aquarium, 837-1596.

Large and extra large dog crates, rawhide products, pet foods at unbeatable prices. Mary, Ext. 4309, or drop by front office of Animal-Care Services.

21" race bicycle, Bianchi frame, Sun-tour components; windsurfing sails, 5.5m2 NeilPryde 4WD, 4.4m2 Gastra CS1; clamp-on boom; windsurfing Hawaii 137-167 cm, 824-5380.

Youth orchestra back for summer training

The 89 young musicians who make up the National Youth Orchestra of Canada (NYO) have converged on U of G to prepare for an 11-city tour of the country.

Now in its fourth year, the association between the NYO and the University will culminate this year in a July 28 concert at War Memorial Hall. From Guelph, the orchestra heads for concert dates in cities from Victoria to Montreal. The young musicians will open the Arts and Culture Harbor Festival in Victoria during the '94 Commonwealth Games.

Members of the orchestra, who are between the ages of 14 and 26, are selected from across Canada. Maestro Kazuyoshi Akiyama will conduct the NYO and lead its intensive summer training for the third consecutive year.

The July 28 concert in War Mem Hall begins at 8 p.m. The program will include works by Bela Bartok, Godfrey Ridout, Beethoven and Richard Strauss. Tickets will be available at the door. □

CLASSIFIEDS

FOR SALE

Norco 15-speed woman's mountain bike, including U-lock and water bottle, excellent condition; HJC motorcycle helmet, size small, good condition, carrying bag included; engagement ring and matching wedding band, excellent condition, Heather, Ext. 2969.

Chest waders for fishing, fly rod and reel, Caltrix, Ext. 4134.

Yamaha 9.9 four-stroke high-thrust 12-inch prop long shaft motor; Raytheon V800 color video fish finder, 580 Loran, like new, Ken, 824-6139.

Pioneer sound system: receiver, CD player, dual tape deck, turntable, four speakers (two JBLs), black stand, 824-2998.

Three-bedroom townhouse, 1,250 square feet, quiet area on Markham Road, close to schools, shopping and public transportation, gas heat, fridge, stove and window air conditioner, Brian or Martina, 836-8566.

FOR RENT

Four-bedroom large family home in old University area, \$1,295 a month, available Sept. 1, Ext. 2169 or 763-0221.

Three-bedroom home on quiet crescent, close to schools, 1 1/2 baths, sunroom, finished rec room with wood-stove, laundry, stove, refrigerator, garage, large back garden, storage shed, available Sept. 1, \$1,100 a month plus utilities, references, 824-8195 after 5 p.m.

Three-bedroom cottage on Lake Couchiching, safe area for children, 823-1559 evenings.

Three-bedroom cottage on Newboro Lake, 60 km from Kingston, screened porch, kitchen, two-piece bath, running water, electricity, rowboat and canoe included, good swimming, fishing, boating, \$275 a week, 1-613-233-7791 days or 272-2242 weekends.

WANTED

Used computer equipment in good working order, 386 or 486 machine plus a laser printer, Shelly, Ext. 2372.

AVAILABLE

Word processing, desktop publishing, spreadsheet, database, secretarial services and consultation services for resumes and documents, fast turnaround, affordable rates, 763-3831.

Pet-sitting service, vet student, live in or out, experienced with large and small animals, Anne, 766-0193.

Classifieds is a free service available to staff, faculty, students and alumni of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham on Level 4 of the University Centre. For more information, call Ext. 6581.

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Partially furnished bachelor apartment, close to campus and downtown, private entrance, share swimming pool, \$475 a month plus utilities, available Sept. 1, Chen, Ext. 4018 or 836-6862 evenings.

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CALENDAR

THURSDAY, JULY 14

Community Barbecue - The 20th annual barbecue kicks off on Branon Plaza with family activities at 4 p.m., followed by dinner at 5:30 p.m. and entertainment. Meal tickets are \$6 and \$7.50, with a children's meal for \$3.

FRIDAY, JULY 15

Biomedical Sciences Seminar - Graduate student Ron Johnson considers "Chondrotoxicity of Quinolones in the Juvenile Rabbit" at noon in OVC 1642.

Cycling Club - A 32-kilometre off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, JULY 17

Cycling Club - A 47-km swim ride to Everton leaves from the UC south doors at 10 a.m.

Arboretum - A Sunday afternoon walk will focus on herbs for your garden. Meet at the nature centre at 2 p.m.

TUESDAY, JULY 19

Animal and Poultry Science Seminar - Graduate student Charles Otieno talks about "Expression of Luteinizing Hormone Genes in Bovine Embryos" at 11:10 a.m. in Animal Science 306.

GRAD NEWS

The final oral exam of MA candidate **David Hagelaar**, History, is July 14 at 10 a.m. in Room 132 of the MacKinnon Building. The thesis is "The Demonizing of Dissent: Opposition to Socialism in England, 1640-1688." His adviser is Prof. Lew Abbott.

The final exam of PhD candidate **Maury Getkate**, Psychology, is July 18 at 9 a.m. in Room 237 of the MacKinnon Building. The thesis is "An Investigation of a Script-Theoretic Perspective of Job Analysis." The adviser is Prof. Steven Cronshaw.

The final oral exam of **Cuiwen Tan**, an M.Sc. candidate in the Department of Veterinary Microbiology and Immunology, is July 21. The seminar is at 9 a.m. in Room 2152 of the Pathology Building, followed by the defence in Room 1106. The thesis is "Molecular Cloning and Sequencing of the Gene for the 17.5 kDa Virulence-Associated Protein of *Rhodococcus Equi*." The adviser is Prof. John Prescott.

The final examination of M.Sc. candidate **Angela Patterson**, Rural Extension Studies, is July 22 at 2 p.m. in Room 101 of the MacLachlan Building. Her paper is entitled "Vocational Education and Training for Women in Pakistan: The IDA Vocational Training Project." Her adviser is Prof. Ab Moore.

The final oral exam of **John Kim**, a PhD candidate in the Department of Veterinary Microbiology and Immunology, is July 29 at 9 a.m. in Room 2152 of the Pathology Building. The thesis is "Studies on the Molecular Biology of the p80 Gene/Protein of Bovine Viral Diarrhea Virus." His advisers are Profs. Jan Thorsen and Janet MacInnes. □

WEDNESDAY, JULY 20

Cycling Club - A 40-km swim ride to Puslinch Lake leaves from the UC south doors at 5 p.m.

THURSDAY, JULY 21

Pathology Seminar - "Do Acanthocytes Have a Specificity for Hemangiosarcoma?" is the topic of graduate student Margo Tant at 11:10 a.m. in OVC 2152.

FRIDAY, JULY 22

Biomedical Sciences Seminar - Graduate student Mehri Zareie discusses "Equine Follicular Fluid and Its Protein Composition" at noon in OVC 1642.

Cycling Club - An off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, JULY 24

Cycling Club - A 70-km swim ride to Kelso Lake leaves from the UC south doors at 10 a.m.

Arboretum - A Sunday afternoon walk will focus on blooms for butterflies. It leaves from the nature centre at 2 p.m.

WEDNESDAY, JULY 27

Cycling Club - A 27-km swim ride to Rockwood leaves from the UC south doors at 5 p.m.

Arboretum - "Insects: the Good, the Bad and the Beautiful" is the topic of a workshop and slide presentation at 7 p.m. at the nature centre. The session will explore the world of insects found in the home and garden. Cost is \$11. Register by July 20.

FRIDAY, JULY 29

Biomedical Sciences Seminar - "Are GMC Cells Hormonally Regulated?" is the topic of graduate student Marianne Vanden Heuvel at noon in OVC 1642.

Cycling Club - A 25-km off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, JULY 31

Arboretum - A Sunday afternoon walk focusing on prairies in Ontario and in your garden leaves from the nature centre at 2 p.m.

WEDNESDAY, AUG. 3

Cycling Club - A 25-km novice ride to Downey Road leaves from the UC south doors at 5 p.m.

WORSHIP

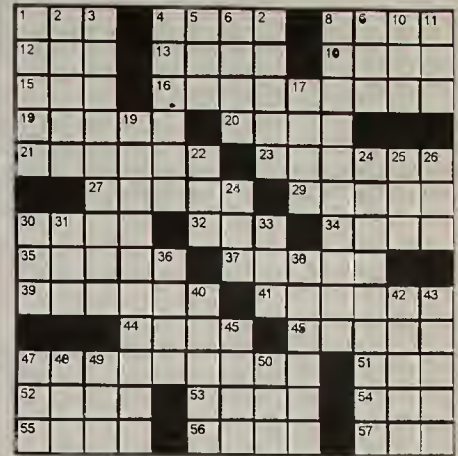
Catholic mass is celebrated Sundays at 10:10 a.m. in the School of Landscape Architecture lobby.

Multifaith calendar

In Buddhism, July 22 is Wassa, marking the beginning of the three-month Rains Retreat for monks and nuns. Dhamma Day July 26 commemorates the Buddha's first discourse, called "Turning of the Wheel of Dhamma," following his Enlightenment.

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Canadian Criss Cross by Walter D. Feener



ACROSS

1. An ocean: abbr.

4. Emotional outbursts

8. Playwright Coward

12. Wing

13. Dig like a pig

14. Seaman's rating

15. Cherry stone

16. Childish

18. Belittle oneself

20. Eye part

21. Buying preferment

23. Complete

27. Of sound

29. Red dye

30. Dwell on

32. Die spot

34. Takes from

35. Mild oath

37. Stone lifting device

39. Next to last syllable

41. Pampas cowboy

44. Army vehicle

46. Soiled spot

47. Nutritious starch

51. Hinged cover

52. ___ geste

53. Protuberance

54. French summer

55. Always

56. Coasting vehicle

57. Knight's title

DOWN

1. Mamas & ___

2. Plausible excuse

3. Twin-hulled boat

4. Dear companion

5. Group of atoms

6. Bean curd

7. Barrel part

8. Swimming pool

9. Japanese sash

10. Building extension

11. Actress Meriwether

17. Hawaiian goose

19. Restaurant

offering

22. Shrilk bark

24. Having two equal sides, as a triangle

25. Costa

26. Fourteenth letters

28. Painting medium

30. Not square

31. Grow up

33. Al Bundy's wife

36. Large number

38. Spent

unprofitably

40. Sea birds

42. Hispaniola

43. Command

45. Collection of standing water

47. Presidential nickname

48. Race a motor

49. Charlotte

50. Lyric poem

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Members of the Department of Agricultural Economics and Business take a row on the wild side to draw names for prizes offered to participants in a survey of back-country users at Ontario provincial parks. From

left are graduate student Will Wistowsky, Prof. Kim Rollins, secretary Doreen Nicklin and graduate student Andreana Valla.

Photo by Trina Kostler, Office of Research

Ontario park users willing to pay more for wilderness experiences

by Nicole Kennedy
Office of Research

Most back-country canoeists and campers in Ontario would pay significantly more to support provincial parks offering wilderness experiences, say University of Guelph economists.

Prof. Kim Rollins, Agricultural Economics and Business, and graduate students Will Wistowsky and Andreana Valla surveyed more than 2,500 back-country users at Algonquin, Quetico and Killarney provincial parks.

Their preliminary findings show that more than half the respondents would pay at least \$20 more per day than they currently do, if it means keeping wilderness opportunities available. In many cases, in fact, individuals were willing to pay 10 times more per day in the wild.

"Eight provincial parks closed this year due to government cut-backs because they couldn't be justified as economically viable," says Rollins. "Although the point of public park land is that it be open to all, the bottom line is that it costs money to maintain the wilderness. I think the results of this survey show users are supportive."

Survey respondents reported that their per-day costs (transportation, food, rentals, fishing licences, etc.) were \$46.26 at Al-

gonquin, \$96.11 at Quetico and \$60.98 at Killarney. More than half of those surveyed said they'd be willing to pay \$20 per day above those costs.

Rollins says this shows how much users value the wilderness. She says the government should accept that fact as justification for keeping publicly owned parks and wilderness areas intact.

"We're not trying to put a price tag on nature, but dollar figures offer a yardstick that allows authorities to talk about the environment in concrete rather than romantic terms," she says. "Just as

foresters are able to express the economic value of the felled trees on a tract of land in dollar amounts, people who use the wilderness should be allowed to assign a monetary value to their experiences."

The survey was sponsored by the Richard Ivey Foundation, the Ontario Ministry of Natural Resources and the Ontario Ministry of Agriculture, Food and Rural Affairs. Mountain Equipment Co-op, Black's Camping and Trailhead contributed prizes that were awarded in a draw for survey respondents. □



Sheep embryo transfer creates two sets of twins

by Robyn Budgeon
Office of Research

When does $2 + 1 = 4$? When sheep researchers divide an embryo into two halves, implant them into one recipient ewe and get two sets of identical twin lambs!

The four lambs were born this spring at the Ponsonby Research Station as a result of embryo-splitting research by the Animal Biotechnology Embryo Laboratory (ABEL) in the Department of Biomedical Sciences.

"It's exceptional that two sets of identical twins were born from a single mother," says ABEL director Prof. Keith Betteridge. "Successful embryo-splitting and transfer projects have been done at Guelph before, but this is the first time it has resulted in two sets of twins from one recipient."

Genetically identical animals have the potential to reduce the number of animals used for research because they're exact copies of each other, variables are reduced and the sample size needed for reliable data can be smaller. "This can reduce the cost of research that must use animal models," says Betteridge.

Here's how it's done. To produce the embryos for splitting, a ewe is treated with hormones to cause superovulation (multiple eggs), then is inseminated. After six days, the embryos are flushed from the ewe's uterus, divided into two and transferred into recipient sheep.

Prof. Stan Leibo and master's

student Nancy Rumph, Biomedical Sciences, were responsible for splitting the embryos. Prof. Brian Buckrell and PhD student Nucharin Songsasen, Population Medicine, performed the embryo flushing and transfer.

At the stage when they're split, the embryos are a tightly packed ball of about 50 to 60 cells called a morula. After the split, each half can produce an entire fetus. Splitting them this early enhances the probability of pregnancy.

Rumph divides the embryos using a micromanipulator set up on a microscope. Each morula is surrounded by a kind of shell, called the zona pellucida, which she carefully removes. She then splits the morula in two by slicing it with a glass needle. Each embryo half is then inserted into an empty zona pellucida, and the embryo is ready for transfer into the recipient ewe.

"It's an efficient way to produce identical twins," says Rumph. Although the technique works equally well with cattle, sheep are better able to sustain twin pregnancies, she says. It's not uncommon for some prolific sheep breeds to bear three or four lambs at one birth.

This research was supported by Semex Canada, the Ontario Ministry of Agriculture, Food and Rural Affairs and the Natural Sciences and Engineering Research Council. □

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See you in September

This is the last issue of *At Guelph* for the summer. Our next issue is Sept. 14. All copy for that issue should reach *At Guelph* on Level 4 of the University Centre by Sept. 7 at noon. Have a great summer!

Inside:

New international student adviser named 3

Men urged to take more responsibility for birth control 3

Agribusiness MBA set for fall launch 3

Forgotten female authors resurface . . . 5

OMAFRA agreement approved, program leaders named . . 6 & 7

Argentina turns to Guelph for reforestation expertise 9

Thought for the week

One must be poor to know the luxury of giving.

George Eliot

**DOWNTOWN
GUELPH**



Hooing it up

There's nothing like the Community Barbecue to lift the spirits, as Shaun "Killer" Wilson, volunteer and Gryphon, ably demonstrates. With food, games,

clowns, music, a dunk tank and, yes, basketball to enjoy, it's a wonder he ever came down. For more photo coverage of the barbecue, see page 12.

Photo by Trina Koster

U of G closely monitors selection of landfill site

A presidential advisory committee on landfill site selection, struck soon after the City of Guelph announced its five proposed landfill sites, is monitoring developments to protect U of G interests.

The committee is to obtain information and advise President Mordechai Rozanski and Board of Governors on the activities of the city's Landfill Search Group (LSG) and implications for the University.

The LSG announced in May that a portion of the Victoria Road lands used for the Guelph Turfgrass Institute is one of five areas being considered for a potential landfill site. All other four sites are in the area annexed from Puslinch Township last year.

Administrative vice-president Charles

Ferguson chairs the advisory committee. Members are John Armstrong, director of the Real Estate Division; Kate Armstrong, local affairs commissioner for the Central Student Association; Roger Jenkins, director of Physical Resources; Dale Lockie, executive manager, Pension Investments; John McCluskey, manager of contract administration for the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA); OAC Dean Roh McLaughlin; and Prof. Larry Milligan, vice-president for research.

Jenkins and others have been attending meetings on the issue and have been in

See U of G on page 8

Expanded early retirement plan gets B of G nod

by Sandra Webster
University Communications

Everyone on campus who applied to the special early retirement program (SERP) has been accepted. The executive committee of the Board of Governors agreed July 15 to expand the program and extend the "temporary" SERP deficit because of higher-than-expected response to the program.

The decision represents a vote of confidence in the University and its planning from the board and offers a tremendous opportunity for the institution's future, said President Mordechai Rozanski last week.

Thanks to SERP's success and B of G's belief that the University can see its way through strategic planning, and if the plan approved by the board is rigorously followed, Guelph will be able to cover its entire structural deficit after the University absorbs all social contract costs in 1996, said Rozanski. These costs are estimated at \$8.9 million, including U of G's commitment to staff employment-equity adjustments.

Assuming no new substantial revenue or expenditure surprises and continuing current budget approaches, the University also projects a surplus by 1998/99 to help fund the strategic-planning reconfiguration and several other institutional needs that have been deferred because of the current budget situation.

Acceptance letters mailed

Acceptance letters were mailed July 20 to the 247 employees out of the 562 eligible who opted for the "rule-of-80" (combination of years of service and age) enhanced early retirement package. Among those going are faculty, staff and senior administrators.

The breakdown is as follows: 75 faculty and librarians, 46 professional staff, 37 members of the Canadian Union of Public Employees, six members of the Canadian Union of Operating Engineers and General Workers, two University Police Association members, three members of the U of G Food Service Employees Association; 56 U of G Staff Association members, one Ontario Nurses' Association member and 17 members of the Exempt Group. Eleven employees are on long-term disability.

Sixty employees will retire in August and September; the other retirements will be distributed over the following 19 months.

Together, the SERPs constitute 10 per cent of the University's regular full-time appointments and represent \$16.1 million in salaries and benefits in the Ministry of Education and Training (MET) operating budget, the Ontario Ministry of Agriculture and Food and Rural Affairs contract and other funds.

The full cost of the special early retirement program to accommodate the 247 employees who are retiring is about \$30.7 million. This consists of \$9.9 million to waive the early retirement penalty, \$4.7 million to the pension plan because employees will join the plan earlier than usual, \$6.1 million for bridging benefits and \$9.9 million for lump-sum payments.

Five months ago, B of G approved the use of up to \$10 million of the pension plan surplus for SERP. The board

See SERP on page 8

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Summer library hours

The library will operate with a reduced schedule and limited services during the between-semester period.

From Aug. 21 to Sept. 5, both the McLaughlin Library and the Veterinary Science Section will be open 8:30 a.m. to 5 p.m., Monday to Friday.

On weekends and statutory holidays during this period, the McLaughlin Library will be open from noon to 5 p.m. and the Veterinary Science Section will be closed.

Library services are limited during this period. For reference service hours, call Ext. 3617. □

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Unit 'reorganization' lacks imagination and vision

As I write this letter, seven U of G co-workers in Graphics and Photographic Services wrestle with the question of how to eke out a livelihood since they learned June 27 that their jobs and services are now redundant.

A June 29 memo from administrative vice-president Charles Ferguson to deans, directors and chairs neatly glosses over this reality by saying "a reorganization" of Graphics and Print Services will no longer include Photographic Services. In actual fact, there will also be scant "graphics" services. One graphics position remains to basically contract out graphics work.

Ferguson's memo argues that the elimination of yet more support services to the University community will "reduce duplication and achieve cost efficiencies." Elimination of a centralized service will do nothing to reduce the duplication of printing, photocopying and photographic services that currently exists at the departmental level. If anything, this departmental duplication will

be a mushroom. What cost efficiencies will be gained from this?

Graphics and Photographic Services has been operating in "probationary" ancillary operation mode since Cresap and, as a result, has been set up to fail. How can a central and essential service operate as an "ancillary" service in a "for-profit" mode if it can't compete and bid for outside work, yet freelancers can compete with employees who are paid unionized pay rates and benefits?

To accept at face value the administration's declaration that the writing has been on the wall is to turn a blind eye to the long-term well-being of this community.

The Graphics and Photographic Services team has played a critical role in creating award-winning promotional materials that have attracted a growing number of top-notch students in recent years. Let's give credit where credit is due to Herb Rauscher, Martin Schwalbe, Penny Clemens, Gabrielle Duval, Rosemary Cochrane, Ford Papple and Chris Boyadjian — they have achieved in spite of the odds.

The short-sightedness of this administration is revealed by the demonstrated success of universities such as McMaster and B.C.'s Open Learning Agency. Their integrated graphics, printing, bookstore/course manual distribution services are not only profit making, but are also providing just-in-time inventory, made-to-measure

course packs and polished promotion that does result in real cost efficiencies and elimination of duplication.

What is redundant is administration without imagination and vision.

Kathleen Hyland
Member-at-large
U of G Staff Association

Thanks for the support!

The START program would like to thank all the staff, students and faculty who donated their time and effort to START '94.

This includes resource fair participants, welcome speakers, facilitators and faculty who spoke at the learning lecture, luncheon and dinner guests, program counselors, campus tour guides, Jazzarus, resource session facilitators and staff at the Athletics Centre and the library.

START would also like to thank all the campus departments and services that contributed prizes or

buttons to the program: Gryphs Pro Shop, Gryphs Sports Bar, Campus Junction, Hospitality and Retail Services, the Brass Taps, Interhall Council, the Wellness Centre, the Central Student Association, College Royal, the College of Social Science Student Government, Waste Management, the Alumni Association and Student Affairs.

Your support to the START program helped make it a great success!

Jeanette Dayman
START manager

Is this the cause of cavities?

On examining the benefit rate increases listed in a recent memo from Human Resources, I was taken aback at the difference in dental insurance premiums between the family rate (\$20.18) and the single rate (\$5.86).

I've come to the conclusion that sex must be bad for your teeth! Perhaps there's something there that would generate grant money for a study. It certainly makes one wonder.

Sheila Trainer
Department of Zoology

GRADUATE NEWS

The final oral examination of **Kathleen Kiernan**, an M.Sc. candidate in the Department of Family Studies, is July 28 at 2:30 p.m. in the Marriage and Family Therapy Centre. The thesis is "A Diversity of Voices: An Evaluation of a Program for Child Witnesses to Wife Abuse." The adviser is Prof. Jean Turner.

The final oral examination of PhD candidate **Gary Blondeau**, Philosophy, is Aug. 2 at 2 p.m. in Room 132 of the MacKinnon Building. The thesis is "Realism and Hume's Theory of Relief." His adviser is Prof. Doug Odegard.

The final oral examination of **Alejandro de la Pena-Moctezuma**, an M.Sc. candidate in the Department of Veterinary Microbiology and Immunology, is Aug. 2. The seminar is at 9 a.m. in Room 2152 of the Pathology Building, followed by the defence in Room 1106. The thesis is entitled "Studies of the 85 kb Virulence Plasmid of *Rhodococcus Equi*." The adviser is Prof. John Prescott.

Karen Gerlinger, HAFS, will defend her MMS thesis Aug. 4 at 10 a.m. in Room 301 of the HAFS Building. The thesis is "An Exploratory Study of Organizational Culture in the Hospitality Indus-

try." The adviser is Prof. Ann Armstrong.

The final oral examination of PhD candidate **James Oxley**, Agricultural Economics and Business, is Aug. 5 at 10 a.m. in Room 228 of the MacLachlan Building. The thesis is "Public Research Effects on the Canadian Food-Processing Industry: A Dynamic Optimization Approach." His adviser is Prof. Karl Meike.

The final oral examination of **Robert Tinko**, a PhD candidate in the Department of Philosophy, is Aug. 12 at 2 p.m. in Room 132 of the MacKinnon Building. The thesis is "Clinical Ethics: Due Care and the Principle of Non-Maleficence." His adviser is Prof. Tom Settle.

The final examination of M.Sc. candidate **Kofi Bobi Barimah**, Rural Extension Studies, is Aug. 12 at 10 a.m. in MacLachlan 101. His paper is entitled "Traditional Medicine in Ghana: A Review of Literature with Implications for Further Studies." His adviser is Prof. Mark Waldron.

The final examination of **William Apgar**, an M.Sc. candidate in the Department of Rural Extension Studies, is Aug. 15 at 10 a.m. in MacLachlan 101. The major paper is "A Mole in the

Paddock (MOLE/PADC): Model of a Knowledge-Base Framework for the Study of Agricultural Information Network Dynamics." His adviser is Prof. Mark Waldron.

The final oral examination of PhD candidate **Jamie Nakai**, Chemistry and Biochemistry, is Aug. 16 at 2 p.m. in Room 222 of the MacNaughton Building. The thesis is "An Interspecies Comparison of the Ah Receptor." The adviser is Prof. Nigel Bunce.

The final examination of **Robin Hicks**, a PhD candidate in the Department of Chemistry and Biochemistry, is Aug. 17 at 1:30 p.m. in MacNaughton 222. The thesis is "Preparation and Solid-State Investigations of Dithai- and Diselenadiazolyl Radicals." His adviser is Prof. Richard Oakley. □

Correction

In the June 22 issue of *At Guelph*, an incorrect graduation year was given for Dorothy James in the outline accompanying the photo of the sod turning for the new FACS addition. James is a 1934 graduate of FACS. □

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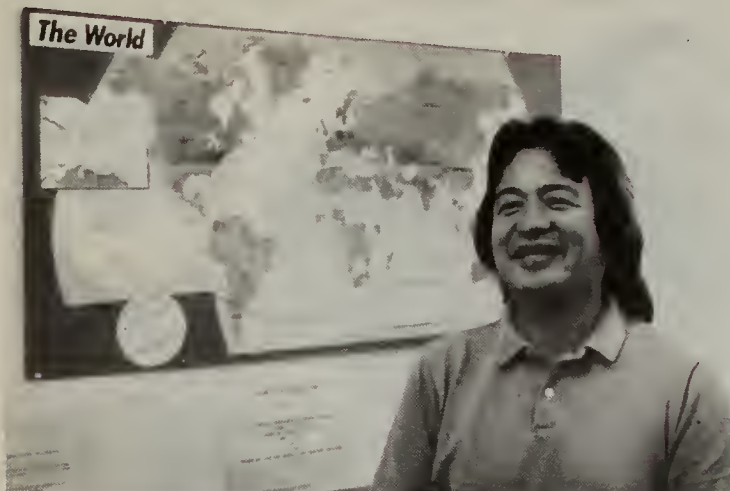
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Benny Quay is U of G's new international student adviser.

Photo by Maurice Oishi, University Communications

International student adviser named

Benny Quay, former international student adviser at Humber College, assumed the same position at U of G July 18. He succeeds Manori Edwards, who has been serving as acting adviser since January, following the retirement of Don Amichand.

In his eight years at Humber, Quay conducted cross-cultural training for staff and faculty, developed and taught a course on international development issues and served on institutional committees to develop policy to support international students.

In addition to his responsibilities at Humber, he has been seconded at various times over the past decade to serve as project officer by the Association of Canadian Community Colleges.

Quay also brings to Guelph extensive experience in project management. He has been a program offi-

cer for Canada World Youth, managed development projects in Africa, Southeast Asia, the Caribbean and the Middle East, and managed development education projects in Indonesia, Kenya, Bangladesh, Gambia and Belize.

"I have a great respect for the wealth of knowledge that international students bring to the campus, as well as for their determination to succeed," says Quay. International students make significant contributions to the educational environment by providing insights into other cultures and offering fresh perspectives, he says.

Quay's position is a one-year renewable professional appointment. He is located on Level 4 of the University Centre and can be reached at Ext 3954. □

Community response helps guide planning

Members of the University community have responded thoughtfully to "Framing the Choices," the discussion paper that presents a vision of the U of G of the future, says Strategic-Planning Commission (SPC) chair Prof. Bev Kay, chair of the Department of Land Resource Science.

Senate, the Management Advisory Group, alumni and members of the University community at large have made observations and comments that will help shape the revised vision statement and the recommendations, he says.

Support was expressed for the future directions articulated in the report, although concern was voiced about "unresolved contradictions" in the document, says Kay. One such contradiction is seen in the attempt to achieve a learner-centred university while decreasing permanent faculty. The SPC was applauded for tackling some difficult issues, such as the semester system.

Advice and comments from the community included:

- The revised document should better define a learner-centred university.

- Too much emphasis was placed on the positive without focusing on the dangers of

budget cuts.

- The document should show not only how downsizing will save dollars, but also how the saved dollars will be used to improve the quality of education.

- The final report should address itself to more flexibility in faculty workloads.

- Before the University community can make a thoughtful response to the strategic-planning recommendations, it needs to see a complete budget and understand the implications of the significant cuts mentioned in the report.

- Diversity should be emphasized more.

- Composition of U of G's student body (full-time, part-time, minority, female, male, adult learners) will have implications for curriculum offerings and student services. Strategic planning should be more thoughtful on this point.

- The mission statement should be shorter, "pithier" and easy to remember.

The revised vision statement will be published in late September, and the final report of the SPC will go to the president by the end of November. □

Agribusiness MBA set for September launch

A specialized MBA in agribusiness is set to begin in September. The M.Agr. program in the Department of Agricultural Economics and Business will be converted to an MBA in time for fall start up, says Graduate Studies Dean Doug Ormrod.

Students enrolled in the M.Agr. program will be offered admission to the MBA, he says. The M.Agr. will be continued until all students in the program have completed their studies.

An MBA in both agribusiness and hospitality business was ap-

proved by Senate in 1992 and by the Ontario Council on Graduate Studies in 1993. Implementation has been delayed because of concerns about the availability of teaching faculty, says Ormrod, but agribusiness is getting under way because not many additional resources are needed to convert the M.Agr. to an MBA program.

Co-ordinated by Prof. Tom Funk, Agricultural Economics and Business, the agribusiness MBA will include courses to be offered primarily by that department, but also by HFAA and the departments of Consumer Studies and Economics. The program will run under the auspices of the Business Council, which is also responsible for the B.Comm. program.

Launch of the hospitality option will be delayed until fall 1995, Ormrod says. □

Vending machines target of thieves

Thieves pried into six campus vending machines July 21, bringing to 14 the number of machine break-ins in a month.

Campus Police say thieves have repeatedly preyed on vending machines in the University Centre near the Boo Sports Bar, on the first floor of the MacKinnon Building and in the chemistry wing of the MacNaughton Building. Both the contents of the vend-

ing machines and nearby change machines have been stolen.

"There's no doubt in my mind that it's the same group of people" breaking into the machines, says Keith McIntyre, director of Security Services. "They stay in the building after it closes and they hit (the machines) then."

The first break-ins occurred June 17, when one machine in the University Centre and two in

MacNaughton were hit.

The owner of the vending machines, Red Carpet Coffee Services, was unable to supply a total value of the stolen goods or damages, but according to Campus Police, the June 17 thefts alone cost \$900 in damages, goods and money.

The break-ins are under investigation. □

Make male contraception a priority, say scientists

by Lisa Chandler
Office of Research

A U of G scientist and the U.S. "father of the birth control pill" are jointly advocating a plan for young men to take more responsibility for contraception.

Prof. Stan Leibo, Biomedical Sciences, a recognized expert in cryopreservation (the freezing and storage of human cells and tissues), and Carl Djerassi, the Stanford University chemist who synthesized the first oral contraceptive, wrote the article "A New Look at Male Contraception" in the July 7 issue of *Nature*.

The article says young men should take a more active role in birth control — while keeping their future reproductive options open — by having their sperm cryopreserved, then undergoing a vasectomy.

"What we are proposing is a very mild interference into human reproduction," says Leibo. "This offers a way for the onus of responsibility for contraception to be shared or shifted to the male."

Women have long borne the burden of responsibility for birth control, say the researchers. Even though vasectomy is a simple, inexpensive procedure requiring only a local

anesthetic, many more women than men are sterilized each year. Tubal ligation, the most common type of contraceptive surgery for women, not only takes longer and costs more than a vasectomy, but also requires the use of a general anesthetic.

Although vasectomies can be surgically reversed, the procedure is difficult and costly. Leibo says that by having their sperm frozen and saved, men who have vasectomies would have the option of fathering children later through artificial insemination (AI). This would eliminate the need for reversing the operation.

The researchers say all the scientific knowledge needed is already in place for the plan's implementation. Vasectomies are routine procedures, cryopreservation techniques are advanced and AI has high success rates. In recent years, tens of thousands of live births have resulted from AI using frozen sperm. Sperm can be inexpensively, effectively and extensively stored in liquid nitrogen.

Leibo's own research on AI in cattle suggests that frozen sperm can be stored indefinitely. A bull semen sample frozen in 1957 was recently used to fertilize bovine eggs in vitro, which developed normally in culture.

Does cryopreservation promote a higher in-

cidence of genetic malfunction? Absolutely not, say the researchers. The technique is widespread in the international cattle-breeding industry and has not shown any adverse results.

Human error — such as a mixup of sperm samples — might be one of the biggest concerns, they suggest. But typing and encoding semen samples at the time of freezing and thawing will eliminate problems of mistaken identity. A recently developed process called single-cell polymerase chain reaction, which has gained new profile for its use in the O.J. Simpson case, and DNA identification can help ensure that the sperm to be used for AI belongs to the donor.

In fact, Leibo and Djerassi say the only barriers to implementing their proposals are those of social acceptance.

"Vasectomy and sperm cryopreservation are established clinical procedures," they write. "No new medicine, science or law would be required for young men to begin practising this form of contraception. What is missing is confidence by a much wider circle of the medical community than reproductive specialists — by policy makers (including ethicists and legal experts), entrepreneurs, health insurers and, most important, potential male users." □

Ottawa will review science, technology

The federal government has launched a review to determine how its investment in science and technology can best be applied to creating economic growth, enhancing quality of life and advancing knowledge.

A key component of the initiative is consultation with the public. This will include local workshops, regional conferences, written briefs and ideas, and electronic discussion via the Internet address can.ai. Consultation documents will be distributed by mail and through Internet. To obtain copies, call 613-954-5716. □

25th Campus Fund shoots for \$140,000

The Campus Fund kicks off its 25th year with a goal of raising \$140,000.

The fund is an opportunity for the campus community to contribute back to the University, says Dinnie Baker, development officer in University Affairs and Development. Last year, \$125,000 was raised, money that went to ensuring that U of G remains a great place to work, she says.

Baker hopes to better last year's mark by encouraging more people to participate. Last year, 27 per cent of the campus contributed. The Campus Fund is used for pro-

jects that are designated as priorities but are not normally funded by the Ministry of Education and Training. Among the projects that have received support are scholarships for the peer helper program, multimedia workstations in the Teaching Resource Centre and the "Choices for Good Health" lectures sponsored by the Department of Nutritional Sciences.

Staff and faculty can contribute to the Campus Fund via payroll deduction. Solicitation packages will be delivered through campus mail by the end of August. □

New student exchange program opens doors at Canadian universities

For students interested in studying in another province while getting program credit at U of G, a new exchange program may be the opportunity they're looking for.

Guelph's membership in the Canadian University Student Exchange Consortium (CUSEC) enables upper-year students to get credit for courses taken at other member institutions. Individual full-time students may enrol and pay tuition at their home university while attending classes in other regions of the country on a full-time basis. This is all done using the "letter of permission" procedure.

Those interested in the CUSEC program should contact their academic counsellors or call program co-ordinator Prof. Ron Stoltz, Landscape Architecture, at Ext. 3008.

The following universities are CUSEC members: Alberta, British Columbia, Brock, Calgary, Carleton, Dalhousie, Laval, McGill, McMaster, Manitoba, Memorial, Ottawa, Quebec, Ryerson, St. Mary's, Saskatchewan, Sherbrooke, Simon Fraser, Toronto, Victoria, Waterloo, Western Ontario, Windsor and York. □

PEOPLE

Prof. Beverley Hale, Horticultural Science, has been appointed chair of the Canadian Institute for Research in Atmospheric Chemistry for a two-year term.

Prof. Isobel Heathcote, Engineering, has joined the board of directors of the Great Lakes Pollution Prevention Centre. U of G has three representatives on the 17-member board. The other Guelph members are Ron Moses of the Office of Research and Len Ritter of the Canadian Network of Toxicology Centres.

The Students Producing Articles on Research Knowledge (SPARK) program in the Office of Research took top prize for best new idea at the awards ceremony of the Canadian Council on the Advancement of Education (CCEA) last month in Winnipeg. SPARK was initiated by Owen Roberts, who also captured the silver prize in CCEA's science and research writing category for an article on chickens responding to TV.

Retired family studies professor Janet Wardlaw, former associate academic vice-president, has been elected president of the U of G Retirees' Association. She succeeds Bob Logan, formerly of the library.

Chief librarian John Black presided over the spring membership meeting of the Association of Research Libraries in Austin, Tex.

B.Sc. graduate Rob Loewith is the 1994 recipient of the Beckman

Prize in molecular biology and genetics. Sponsored by Beckman Canada Inc., the award goes to the student who has attained the highest cumulative average in science courses taken in the previous four semesters.

Prof. David Piggins, Psychology, gave a paper on lateral thinking at an interdisciplinary conference on "Creativity and Discovery" at Memorial University in Newfoundland.

Prof. Nancy Bailey, English, and Nancy Schmidt, original co-ordinators of the University College Connection Program, have received the Program/Service of the Year Award from the student affairs division of the Canadian Association of College and University Student Services. The award goes to student affairs professionals who have developed and implemented a program that shows innovation and creativity and makes a contribution to students, the profession or the home institution.

A golfer's dream came true for part-time student Doug Eagle in this year's Department of Chemistry and Biochemistry golf tournament when he shot a hole in one through heavy rainfall and high winds. Eagle was representing Wellington Laboratories, where he works. The hole in one helped his score, but defending champion Prof. Joe Prokipeak was the top player of the day with a par 71. □



Caught in the act

Kindred spirits, these participants in U of G's summer drama camp, have taken up haunts in Massey Hall. Acting, hamming and emoting are, from left, Jamie Fairweather, Josh Eam, Edward Ayre,

Ashley Zehr, Alison Fairweather and Evelyn Ayre. The camp is run by drama students Sam Hancock and Kathie Webb.

Photo by Maurice Oishi, University Communications

Poultry Study Group spreads its wings

by Barbara Chance
University Communications

You have to start somewhere.

That's the philosophy behind a small office in OVC where a dream to turn U of G into the poultry centre of Canada is being pursued a step at a time.

Located in the Clinical Research Building, the office is headquarters for the Poultry Study Group, established in January 1993 to support teaching and research in the areas of poultry production and health.

Led by Prof. Jean-Pierre Vaillancourt, Population Medicine, the group puts a major emphasis on continuing education — getting the knowledge obtained through university research out to the people working in the poultry field.

Vaillancourt notes that poultry is a multi-million-dollar business in Ontario. "When you want to be more competitive, lower the cost of production and move quickly, the best way to do it is to ensure that there's adequate transfer of technology," he says. "If you want to go forward, you have to put at least as much emphasis on continuing education as on research."

Resource centre

To that end, the Poultry Study Group is working to create a multimedia resource centre that will provide written, audio and video reference material to people with an interest in poultry around the world. It will also provide computer software such as IntEGRAL, a training program Vaillancourt and students are developing for poultry professionals.

The group receives financial support from companies such as Intervet Canada Ltd., which recently donated a slide cabinet with a capacity for 8,200 slides for the group's growing collection. Donated funds are also used to buy or produce tapes, journals and books. Much of the resource material itself is donated.

This year and last, Intervet sponsored a training session in co-operation with the Poultry Study Group for people studying for the

certification exam of the American College of Poultry Veterinarians. This year's June session on campus drew 27 invited participants from seven provinces, the United States and Mexico.

They listened to lectures by poultry experts from Canada and the United States, including Profs. Richard Julian and Bruce Hunter, Pathology. They also looked at thousands of slides, discussed clinical cases, held round-table discussions and wrote a mock exam.

Having some of the top poultry vets in North America on campus for three days was a bonus for OVC graduate students who participated in the session, says Vaillancourt. "It was better than any formal course I could offer."

The real certification exam was held this month in San Francisco during the annual conference of the American Association of Avian Pathologists. Like last year, the Canadians taking the three-part exam did better overall than the Americans, even though the exam focuses on U.S. material, says Vaillancourt. The Canadians particularly shone in the slide section of the exam, he says.

Vaillancourt, who gave a talk at the conference and presented a poster on the Poultry Study Group, says news of the training session and its positive results spread fast at the conference. "Lots of people were asking to reserve a spot for next June."

Participants in the training session agree it was a big help in preparing them for the exam, but they also say its value goes way beyond the board certification process.

"Even though I have been involved in poultry veterinary work for 30 years, I found the review beneficial," says Daniel Wenger, veterinary science director of Premiere Agri Technologies, Inc., in Decatur, Ind. "It will help me in my day-to-day poultry veterinary work."

Rachel Ouckama of Curtis Chicks Limited in Port Hope says she'd like to see the sessions continue yearly "because they are an

extremely useful review and update on new information, not only for board exam prospects, but also poultry practitioners. I intend to keep using it as part of my continuing education."

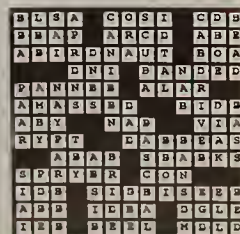
Nicholas Dorko of Arbor Acres Farm, Inc., in Glastonbury, Conn., says he would recommend the session to anyone preparing for certification or just wanting a good general review of poultry medicine. "It would be nice if I lived in Ontario, so that I could regularly attend study sessions, because nothing like this is available in New England," he says.

Spread the word

Tapping into the need for continuing education in the United States will be one important way to spread the word about the Poultry Study Group, says group member Scott Gillingham, an OVC graduate who is Intervet's director of technical services.

With about 25 faculty in OVC and OAC involved in poultry-related research, "we have a tremendous resource of people here," says Gillingham. "We're dwarfed by the United States in terms of poultry production, but we don't want to be dwarfed in continuing education. I believe we have the resources to become a key player worldwide."

Vaillancourt agrees. He visualizes a day when U of G and its poultry specialists are at the core of a network branching out to industry and poultry universities across North America and around the world. "At the end of the day, we are going to be recognized as a major centre." □



BOOKS

Roots of social science run deep

by Shawn Chirrey
Office of Research

Florence Nightingale: nurse, hero and one of the most underestimated social scientists in history. Nightingale is among the social science pioneers whose contributions are detailed in *The Early Origins of the Social Sciences*, a new book by Prof. Lynn McDonald, chair of the Department of Sociology and Anthropology.

McDonald argues that the inception of the social sciences extends back further than popularly believed and into sources not often recognized. She cites the influences and contributions of women and Greek classical works and ideas, as well as the influences of the French Enlightenment.

McDonald's discussion of Nightingale is based on the statistical work the nurse conducted after returning from the Crimean War — work that showed more soldiers died from disease than bullets. Thanks to Nightingale's "sanitary" reforms, however, this horrific situation was changed and mortality rates were dramatically reduced.

On the heels of these developments, she worked for wider application of health statistics for the army and civilian populations in

India and Britain. She did a pioneering study of the high mortality of women giving birth, complete with recommendations for changes in the design of facilities and the banning of medical students, who brought in disease.

McDonald's research in this area, which spans about 20 years, underlines that social science was strongly influenced by 17th- and 18th-century social movements such as the Enlightenment, the British moral philosophers and the French Revolution.

Her research contends that these movements were deeply entrenched in concerns for social reform. She notes the reformist work of figures such as Voltaire, Diderot, Condorcet, Germaine de Staël, Catharine Macaulay, Harriet Martineau, John Stuart Mill and Harriet Taylor Mill, Mary Wollstonecraft and Jane Addams.

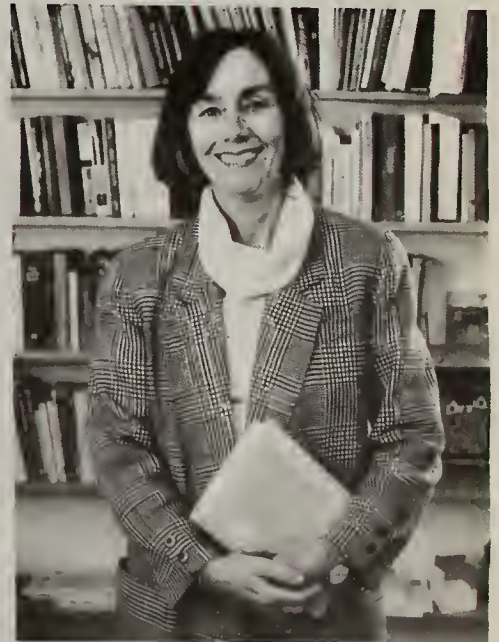
McDonald says there has been much misunderstanding of the social sciences over the past 20 years, "especially with the radical critiques of empirical work and objectivity — seen as conservative in nature — coming from some feminists and environmentalists." Recent critiques of the social sciences fail to see its innate connection to social change, she says.

Historically, those leading social movements generated new forms of knowledge to try to create a better society, says McDonald. There are numerous examples of the status quo being contested by these movements, such as the status of women in society, environmental concerns, resolving violent conflict and developing alternative social movements. Through use of scientific method, social scientists were able to explore problems, compare results and propose alternatives.

"These new critiques often come from people involved in social activism," she says, "but they fail to see the activist potential in the methodological foundations, research techniques and basic concepts of the social sciences."

McDonald herself has a tradition of social activism. She was an MP for the Toronto riding of Broadview-Greenwood from 1982 to 1988, serving as the NDP's justice, communications, culture and environment critic. She has also worked with Energy Probe and is currently a member of the steering committee of the Campaign for Nuclear PhaseOut.

"I hope social scientists will get more excited by the origins of their own field and also see its great potential for social reform



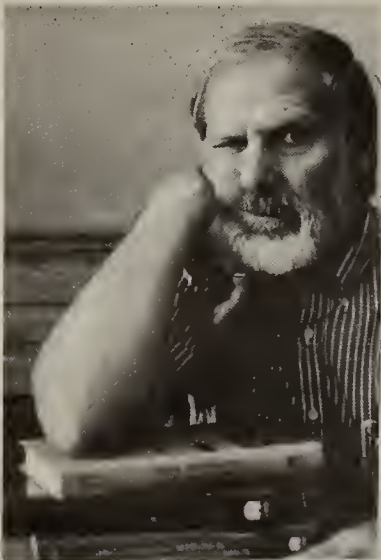
Prof. Lynn McDonald

Photo by Martin Schwaibe, Photographic Services

and change," she says.

Research for McDonald's book, which is published by McGill-Queen's University Press, involved extensive work at the British Library in London and Bibliothèque Nationale in Paris,

tracking down obscure printed sources and various archives. From this research, she is releasing a related publication, *The Women Founders of the Social Sciences*, through Carleton University Press. □



Prof. Bill James

Engineering series focuses on water

The last in a series of three books edited by Prof. Bill James, *Engineering*, was recently published by Lewis Publishers of Ann Arbor, Mich.

Entitled *Water Development and the Environment, New Techniques for Modelling the Management of Stormwater Quality Impacts and Current Practices in Modelling the Management of Stormwater Impacts*, the books were released in 1992, 1993 and 1994 respectively. Each is based on a special conference organized in Lund, Sweden, or Toronto.

Peer reviewed by an international group of academics, the books include review articles, case studies and detailed indexes and glossaries. □

Forgotten female writers once popular

by Margaret Boyd
University Communications

Silenced Sextet, a collection of essays on 19th-century Canadian female fiction writers, looks at the phenomenon of neglected authors. The six female writers explored in the book had the distinction of being "enormously popular in their lifetime but all but forgotten today," says English professor emerita Elizabeth Waterston, one of three co-authors of the book.

Waterston notes that far more Canadian female writers than male writers have been forgotten. In the past, school curriculums were set by men, who also reviewed all books and assigned all reading lists of serious books. As a result, many female writers were marginalized, she says. "We don't want to underrate the men, but we want to look at the women, too."

The six female writers discussed in the book are Marshall Saunders, Rosanna Leprohan, Joanna Wood, Frances Harrison, Margaret Murray Robertson and May Agnes Fleming.

Published by McGill-Queen's University Press, the book was a 10-year project for Waterston and co-authors Lorraine McMullen of the University of Ottawa and Carrie Macmillan of Mount Allison University. They read all the novels and letters of the six women, who were prolific writers of novels and thrillers on a variety of topics.

The six had no connection to each other and often worked in isolation with little support. Leprohan, for instance, had 13 children, but she still managed to write dozens of books. Best remembered of the women is Saunders, who wrote *Beautiful Joe*, which was published in 1894 and was Canada's first world best-seller.

Silenced Sextet "was a rescue mission, but it turned out to be fun," says Waterston. "We wondered, would we find a gem? It turned out not to be so, but several of these books have been republished recently or are in the works."

Silenced Sextet is very much a feminist study and a social literary study of the conditions of publishing and taste. In the research process, no dominant trends or themes emerged, says Waterston, but early books tended to focus on courtship and dreams of weddings and marriage. Later books addressed issues of child abuse and social reform. She hopes *Silenced Sextet* will appeal to those interested in women's studies.

This book is just one of many projects Waterston has been involved in since retiring in 1987. She and McMullen

recently edited *Armand Durand*, a novel by Leprohan that deals with courtship, marriage, divorce and alcoholism in Quebec in the 1880s.

A founder, former editor and current board member of the journal *Canadian Children's Literature*, Waterston is now working on the fourth volume of the Lucy Maud Montgomery journals, which she edits with Prof. Mary Rubio, English. Waterston is also author of *Children's Literature in Canada*, a Twayne's World Authors Series book published in 1993, and *Kindling Spirit*, a critical appraisal of Montgomery's *Anne of Green Gables*, published in 1994 by Toronto ECW Press. She is currently working on a critical edition of Robert Louis Stevenson's *A Child's Garden of Verses*. □



Professor emerita Elizabeth Waterston

Photo by Maurice Oisht, University Communications

ARIO okays agreement restructuring

Stories by Owen Roberts
Office of Research

Plans for restructuring the research agreement between U of G and the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) have been approved by the Agricultural Research Institute of Ontario (ARIO), the provincially appointed group that advises the minister on agricultural research priorities in Ontario.

The approval follows a presentation to ARIO earlier this year by U of G faculty and administrators involved in the restructuring effort, including leaders of the newly aligned research programs.

"Institute members are favorably impressed with the restructured research program," says ARIO research director Norris Hoag, assistant deputy minister of education, research and laboratories for OMAFRA. "It is evident that faculty have put a lot of thought and effort into a new approach to doing research."

The agreement, now in its 29th year, has a mission to support the long-term global competitiveness and sustainability of Ontario's agriculture and food system through excellence in research and education. In 1993/94, the ministry supported \$30.67 million worth of research at U of G through the agreement.

Central to the restructuring are program and administrative streamlining and consolidation and a faculty bidding

system for research support.

"It's all designed to create greater efficiencies and flexibility and to allow greater opportunities for a wider range of researchers to deal with the major issues facing Ontario's agri-food industry and rural communities," says Prof. Larry Milligan, vice-president for research. "We'll be able to address issues more quickly, effectively and with more supporting partners."

Previously, there were 27 individual research programs in the agreement. Now there are six: animals, plants, food, sustainable rural communities, agri-food systems, and environment and natural resources.

The program leaders in these areas have assembled their own advisory committees, involving representatives from business, industry and government, as well as overall program groups.

The 1994/95 fiscal year will be a transition period for the agreement restructuring. During this time, a new financial system and project database is being instituted and will be fully operational by 1995/96. The transition year also allows many previously approved multi-year projects to conclude.

The four most recently appointed program leaders are profiled here. Plants program leader Prof. Gord Surgeoner, Environmental Biology, was named last year. An agri-food program systems leader has yet to be appointed. □



Prof. George Penfold wants U of G recognized as a resource of rural community expertise.

Rural communities are not just farms

When the provincial government added rural affairs to the mandate of the Ministry of Agriculture and Food earlier this year, community development specialists — including sustainable rural communities program leader Prof. George Penfold — gave a resounding endorsement.

"It showed that there's a commitment to addressing rural Ontario's needs as a part of, yet distinctly different from, agriculture," says Penfold, a member of the University School of Rural Planning and Development. The province's action draws attention to the fact that most of Ontario's rural population lives in small towns, villages, hamlets and on rural lots — but not on farms.

"There's been a great deal of attention paid to agriculture, and there's some thought that dealing with agriculture is dealing with rural communities," he says. "But less than 20 per cent of the rural population lives on farms. What about the other 80 per cent? Rural community development has to include them."

Penfold says there was a confused provincial mandate regarding who looks after this segment of the population, but now it's clearly with OMAFRA. And that helps define rural communities as an area of research in the University/OMAFRA agreement.

Like most of the other six program areas in the agreement, some restructuring initiatives were already well under way when the formal process began. Six years ago, the Ontario Agricultural Services Committee suggested creating a social-impact committee on campus, which Penfold and several other faculty participated in. That led to a sustainable rural communities initiative in 1991, involving 45 researchers from 10 departments and representatives from rural communities.

The committee was originally chaired by Prof. Lynn McDonald, chair of the Department of Sociology and Anthropology. Last year, after returning to Guelph from serving on the Commission on Planning

and Development Reform in Ontario, Penfold was appointed interim program leader. In April, he was named program leader.

He has two goals for the rural sustainability program. First, he wants national and global recognition of U of G as an institution with a clear strength in sustainable rural communities. "In a lot of areas, we're there already," he says. "What we need to focus on is creating synergy between those areas of strength."

Provincially, he wants OMAFRA, other ministries and Ontario communities to regard U of G as a resource they can look to for rural community expertise.

"Ultimately, communities themselves are the best at dealing with their own issues," he says. "Research can help them by providing basic information and skills training as well as by looking at examples elsewhere and giving them options."

Penfold says the current critical issue facing sustainable rural communities is economic development.

"Most rural communities have been shrinking since the turn of the decade. We've been an urbanizing society and have focused most of our attention on expanding cities, not shrinking rural communities. But now people are refocusing on them as places to live, recreate and conduct business."

The sustainable rural communities program integrates with the other program areas in many ways, says Penfold. Farm family income, for example, usually has both farm and off-farm components. And environmental quality is an agricultural as well as rural community concern. He says he's impressed with the commitment other program leaders have made to the restructuring and to viewing the process holistically.

Penfold believes the key to success will be strengthening links not only among programs, but also among campus researchers and between the University and rural communities and organizations involved in rural community development.



Prof. Marc Le Maguer will lead the food program's targeted research.

Food research must meet

When food research program leader Prof. Marc Le Maguer gazes into his crystal ball, he sees the future clearly. He envisions Canadians gaining an advantage over the competition by adding value to basic commodities.

Le Maguer, chair of the Department of Food Science, knows the competition is anything but static. That's why he's proposing that one-fifth of the entire foods program research budget — about \$200,000 — be available to meet the dynamic, shifting priorities of industry.

"Things are changing so rapidly that we need to have money available to meet industry's needs," he says. "For example, health organizations prompt changes in regulations, and all of a sudden, something gets banned and the industry is looking for answers. It may take years to respond completely, but at least if there's money available, we can start research immediately to address such needs."

Le Maguer says the primary goal of the

foods program is to do targeted research — basic or applied studies directed at an industry sector.

Like other areas in the University's agreement with OMAFRA, restructuring here started several years ago, before the formal process began. Now, there's a five-part strategy percolating that follows food from farmers' fields to industry warehouses to consumers' plates.

It starts with a knowledge of the raw material — something Le Maguer says Canada is just beginning to invest in. Although the country is renowned for quality, it has primarily grown and exported its raw materials instead of looking at adding value. As a result, little energy has been devoted to understanding the basic functionality of what Canada produces.

"How the raw materials work together and behave is something we know little about," he says.

Next comes preservation and packaging. Consumers want "transparent" technolo-

Better communication of agri-environmental research sought

There's a public perception that agriculture just recently discovered the environment. But from Prof. Gary Kachanoski's perspective, the two have always been inseparable.

Kachanoski, a member of the Department of Land Resource Science and leader of the environment and natural resources program, says that within the context of a viable agricultural production system, the environment has traditionally had a prominent place.

"For the past 30 years, conservation tillage, soil testing, nutrient guidelines for major crops and manure management have all been part of the drive to wed minimal environmental implications with maximum crop production," he says. "From a scientific and farming point of view, agriculture and the environment is nothing new. But as far as the public goes, it is."

And that's one of his goals as program leader — improving the communication of agri-environmental research results arising from activity under the University/OMAFRA agreement. Given the scope of the subject — which touches on areas such as crop science, animal science, engineering, soil science, agricultural meteorology, hydrology, landscape architecture and environmental biology — Kachanoski anticipates a flurry of activity.

"There are significant environmental implications to a great deal of the research going on in the other areas — crops, animals, food, rural communities. Getting the program leaders together regularly will help us all stay on top of common interests."

Much of the revamping for environmental quality and resources-management research under the University/OMAFRA agreement began well before the formal restructuring

process began. In 1991, under the direction of Prof. Bev Kay, chair of the Department of Land Resource Science, four existing programs in the agreement were amalgamated: water management in agricultural watersheds; soil and nutrient management for crop

production; agricultural meteorology; and agricultural resources, inventory and use.

They were restructured into a new program called agriculture, environment and stewardship of natural resources, which became operative the following year. Some research

projects in this program are now in their second year.

"It was a pioneering move," says Kachanoski. "ARIO was pleased and has supported the amalgamation all along."

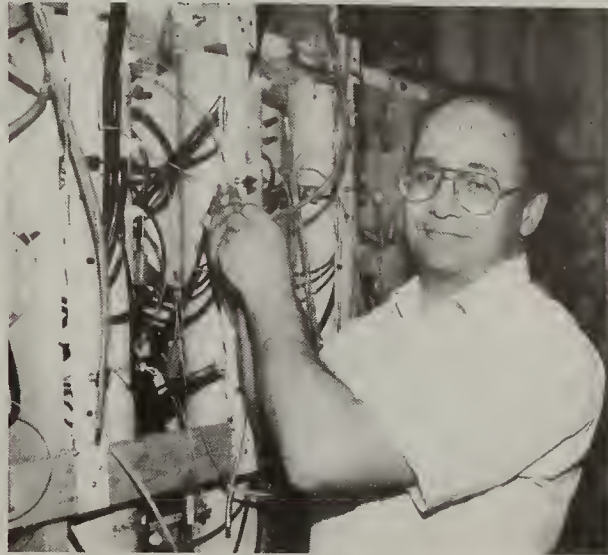
Kachanoski is well known in agri-environmental circles. With colleague Prof. Eric Beauchamp, he developed a soil nitrogen test that has become a standard in Ontario. He holds a joint appointment with the Centre for Ground Water Research at the University of Waterloo to deal with agriculture and water-use issues. He has served as his department's extension co-ordinator and has worked with numerous farm groups, including the Ontario Soil and Crop Improvement Association.

Kachanoski wants to use these contacts and others to further develop research links and attract additional support. His targets are other universities, business, government, producer groups and conservation authorities, to name a few.

"If you combine our expertise in rural ground water with that from a couple of other places, I don't think there are any others who can beat us in a funding competition," he says.

Kachanoski put his name forward for committee leadership because of his pride in his profession and U of G's reputation in agricultural research, not to mention his pride in being an "Aggie." He's hopeful the agreement restructuring will mesh well with the University's strategic-planning process.

"We do many things well at the University of Guelph," he says. "When it comes to agriculture, we do it very well. If you had to pick an obvious niche that no other Ontario universities have, it's agriculture. I'm hoping that in the strategic plan, the obvious is stated." □



Prof. Gary Kachanoski says agriculture and the environment have always been inseparable, contrary to public perceptions. Photos by Trina Koster, Office of Research

Co-ordinated effort in animal research needed across Canada

There's no use restructuring the animal program in the University/OMAFRA agreement in isolation, says program leader Prof. Roger Hacker. He's thinking big, and he wants the rest of the animal industry to join him.

Hacker is a 24-year U of G veteran and former chair of the Department of Animal and Poultry Science who helped guide the Ontario pork industry through a much-needed self-examination last year. He says Guelph is an important — and essential — starting point for restructuring research within the entire Canadian animal industry.

"It starts here on campus, but we must have a co-ordinated effort in our research endeavors right across Canada," he says. "That needs to be developed for us to take advantage

of greater international recognition and opportunities."

Hacker says unprecedented communication avenues are open to researchers who want to collaborate on areas of common interest. But he warns that new technologies such as the information superhighway that reduce the need for large research samples will probably also reduce the requirements for some research facilities.

"The new technologies make me question if we need all the current facilities we have," he says. "You need places to do research, but in Canada, we've overbuilt. We're not going to need facilities to house a flock or herd of 300 animals when we can get the same results with much fewer animals. With shrinking operating money available, we've got to look at our options."

One option he's excited about is working more closely with food producers — actually conducting research on farms to help speed up technology transfer.

"That's one of my mandates. When a group runs its own research and development program, it gets a window of opportunity to be ahead of the competition by five to eight years. By having producers involved, we can accelerate that opportunity because we'll know what works in practice."

Hacker is confident this new working relationship and structure can happen and will work. "Producers are more astute and educated than ever before. They understand science more. It's a natural evolution, and getting them involved might encourage additional research support from their profes-

sional organizations."

That's an imperative for Hacker and the other program leaders — to use the OMAFRA agreement to obtain additional research funding. Hacker is particularly interested in creating opportunities that can help the province's top producers.

"I want to make animal agriculture in Ontario as commercially viable as possible," he says.

He'll be covering a lot of ground to reach that goal. The new animal program encompasses the former beef, dairy, poultry, pork, aquaculture, sheep and equine programs. It's a huge program, involving re-

searchers from at least four colleges.

But Hacker believes there's potential for much more. He's already heard from researchers in departments that weren't previously involved in the University/OMAFRA agreement, anxious to see where their expertise might fit into the animal program. And staff are ready for the challenges that restructuring represents, he says.

"At the grassroots level, people are saying: 'Let's hear the direction, have a discussion about it and get on with it.' There's a positive attitude all around." □

shifting industry priorities

gies at work here, says Le Maguer. They want stable, fresh-like quality without the appearance of manipulation. How is that accomplished on a production-line scale, keeping in mind quality and safety? Those are all questions addressed by the food program's strategy.

Then comes the value-added consideration and the knowledge required to generate such things as new ingredients from traditional raw products, he says.

"Instead of looking at a tomato for ketchup, for example, let's break it down into its constituent parts such as pectins and colors. It's like breaking down petroleum crude into components such as gasoline and motor oil. It generates all kinds of value-added opportunities."

Also a part of this area is the identification of "nutriceutical" food components for health promotion and disease prevention. "These are

niche-market high-value items," says Le Maguer. "They appeal to the cosmetic and medical industries and represent an untapped market."

Finally, the delivery and transfer of the technology to industry is accomplished by the Guelph Food Technology Centre. It gives processors the opportunity to test scientific know-how in industrial applications at an early stage. If it shows promise, there are opportunities to obtain additional research support for further development.

Le Maguer says a critical dimension of the new food plan was the creation of the Natural Sciences and Engineering Research Council (NSERC) industrial research chairs in milk ingredients and dairy microbiology (co-sponsored by the Ontario Milk Marketing Board) and the food-packaging chair (co-sponsored by the George Weston Group of Companies).

"I'm hoping that now we can tie all the programs together," he says. "This has to start at the breeding level and carry on all the way through to processing."

He's encouraged by the initial response. "Faculty is happy hearing about greater accountability. If we can give them substantially more research money, using NSERC award amounts as a guideline, they'll accept peer review because it will be high-quality and prestigious."

Le Maguer says research support will go to those who can reach their stated goals.

"You'll be 'new' every time you apply, and there's no de facto continuation attached to your research. Only if you're very good and relevant to the program will you receive an award." □



Prof. Roger Hacker wants to make animal agriculture in Ontario as commercially viable as possible

SERP makes strategic planning both possible and essential

Continued from page 1

also agreed that lump-sum payments to retirees should come out of University operating funds, to be paid back over 37 months from salary and benefit savings.

At that time, University pension consultants forecast a 20-per-cent take-up rate — some 100 to 120, including about 35 faculty — at a combined estimated cost of \$15 million (\$10 million from the pension surplus and about \$5 million from the operating budget for lump-sum payments).

If the positive responses exceeded the funds available, the plan was to limit acceptances, offering retirements on a seniority basis up to the amount available for SERP.

Surprised by response

SERP's take-up rate, however, surprised administrators and exceeded their best hopes. When Human Resources tallied the final positive responses July 1 — the last day employees could accept or reject the package — the response rate was 44 per cent.

After several meetings of senior administrators and various consultations, Rozanski decided that all eligible employees willing to accept the package should be permitted to participate in the program and that he would recommend such acceptance to B of G.

"We had to consider the morale of those employees who wanted to retire early but would not have been able to do so," said Rozanski. "We also couldn't overlook the substantial opportunity SERP

opened to resolve our structural budget problems in a fundamental way, as well as to give us breathing room to deal with strategic planning."

The president and vice-presidents Prof. Jack MacDonald and Charles Ferguson presented to members of B of G's finance committee the proposal for the expanded early retirement program and a larger "loan" of \$20.7 million beyond the previously approved \$10 million from the pension surplus (a maximum that will not be exceeded).

The \$20.7 million, which includes the previously approved \$5 million for lump-sum payments, is to be funded from the operating budget and paid back over 50 months.

The executive committee approved the plan.

The president expressed appreciation to members of the finance committee, the executive committee and B of G chair Bill Brock for their help in refining the plan. He also thanked the board for the vote of confidence in the University and in its ability to manage and eliminate the deficit and move forward into the future as a financially stable and academically strong institution.

"Of course, we will miss the people who have chosen to go," said Rozanski, "but we are grateful to them for making personal decisions that will also advance the best interests of the University and those employees who remain."

Because of early retirements, U of G will be able to address prob-

lems in a more voluntary and collegial way and avoid what would have been a more distressing situation, probably requiring more severe budget decisions, when the social contract ends in 1996, he said.

The strategic-planning process and SERP are integral parts of the social contract signed in 1993 between the University and its bargaining agents. "Fortunately, our plan during the social contract discussions has begun to be realized," Rozanski said.

He credited SERP's success to the carefully designed package developed by Vic Reimer, manager of compensation and benefits in Human Resources, and Ferguson with the advice of the Advisory Committee on Pensions and Benefits and others, including MacDonald, John Miles, director of Financial and Administrative Services; Executive Group; VPAC; and the Consultative Forum.

Rozanski said the board and University administrators recognize that the next few years will be a period of some transitional hardship as the University adjusts, "but we should be encouraged by the fact that in a short time we will emerge stronger and with a reassured future."

Financial stability

SERP will help provide financial stability to the institution and, with the help of deans, chairs, directors and managers, will eventually improve the quality of life for employees and assure the quality of programs offered to students as the University downsizes, he said.

As anticipated, the program has made strategic planning both possible and essential, said Rozanski. "The University can now more easily be reconfigured so that we can focus our efforts, ensure our academic quality and, in the process, make sure that those employees who remain are not overburdened because we will be able to do fewer things and do them differently."

Guelph is already heading in this direction with plans to cut enrolment by 13 per cent by 1996, reduce course offerings by up to several hundred and transform the semester system, said MacDonald.

"Now it's even more important for the Strategic-Planning Commission (SPC), working with University leadership and employees,

to help us decide as a community how we will reshape ourselves," he said.

SPC co-chair Prof. Bev Kay, chair of the Department of Land Resource Science, recognizes this challenge. "SPC will have to provide realistic choices to the community on how to use the enhanced flexibility SERP has given us to place Guelph in the strongest possible position as we move into the next century."

Faculty replacements

MacDonald acknowledges that it will not be business as usual for the next three years as academic units cope with fewer faculty and more sessionals.

"But in the long run, SERP offers a very welcome opportunity to make adjustments on the basis of strategic planning and to cope with sizeable budget and resource problems," he said.

Out of SERP, there are 18 faculty retirements in the College of Arts, six in FACS, seven in OVC, two in the College of Biological Science, seven in the College of Social Science, 13 in CPES, 17 in OAC and five in the library. Separately, another 22 faculty will be taking regular retirement over the next three years.

All vacated faculty positions will revert back to the centre, said MacDonald. Replacements will follow guidelines that allow 25-per-cent replacement of released salary dollars and conform to the institution's priorities as defined by SPC.

Those few replacement positions that are filled on a permanent basis will be considered rigorously, he said, and will be filled at the discretion of the president following consultation with the academic and administrative vice-presidents and their advisory councils. A University-wide committee will aid the vice-presidents in the wider replacement effort.

Few replacement positions will be filled with probationary or tenured faculty in the next four years, said MacDonald. Most will be filled by one- or two-year contractually limited appointments. The majority of positions will be kept vacant until SPC defines the University's future configuration and as the budget permits, he said.

MacDonald is now meeting with college deans to review teaching functions. Funds will be provided for sessional replacements based on these reviews.

Some faculty SERPs will be rehired for sessional teaching at sessional rates, he said, and the financial arrangements will be strictly controlled. "We need these people to help us through the transitional period and perhaps beyond."

Staff replacements

In the non-academic units, the largest number of early retirements is in Physical Resources. Over the next 21 months, 51 employees will retire there.

Ferguson notes that these retirements are on top of the Cresap cuts, the last early retirement program and the reductions to the non-academic units in this operating budget.

Up to a maximum of 40 per cent of staff dollars will be used for non-academic replacements. Staff replacements will be reviewed by the same committee that will review faculty positions.

Each operating unit will be asked to prepare submissions to the committee for replacement requests, said Ferguson, and these will be judged in light of institutional needs, safety and security requirements and the SPC process. The president must also give final approval for these replacements.

Some staff SERPs will also be rehired on a contract basis for a limited time. As with faculty who are rehired, their remuneration will be less than their previous salary and not more than their pension income, said Ferguson. Their appointments must also be approved by the president.

The University must still maintain essential services in buildings, housekeeping and grounds, he said, "and our intent is to minimize the impact on the quality of these services. Support services are getting to the point where we must rethink the kinds of services we offer."

A permanent plan

A number of employees missed the SERP program by a few days or months and indicated an interest in another program. SERP allowed someone who was at least 55 with 10 years of pensionable service by April 1996 to retire. A second SERP is not planned, said Reimer, but B of G in March approved setting aside \$2 million in reserve and additional funds as they become available for a future permanent early retirement plan based on a "rule of 85."

Jane Watt, assistant vice-president for human resources, said the names of employees who have accepted SERP will not be made public. "Probably 99 per cent of them would not mind, but some consider this a confidential matter, and we must respect their wishes," she said.

One month before employees reach their retirement date, they will meet with Human Resources staff for a final interview and to complete paperwork. At that time, they will be asked if their names can be printed in an *At Guelph* retirement column.

A University-wide reception to honor the SERPs is also being considered, said Watt.

Watch *At Guelph* in the fall for profiles of some of the SERPs and what they plan to do in retirement. □

U of G has direct interest in proposed landfill site

Continued from page 1

contact with appropriate groups on behalf of the University.

"The University has a direct interest in the site because it is adjacent to the Arboretum and close to the main campus," says Ferguson. "Any proposed use immediately affects the Turfgrass Institute and the University's agri-forest project, which are both on the site."

The Victoria Road site lies on

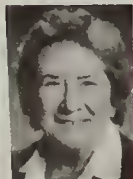
Crown land in which four Ontario ministries — OMAFRA, Government Services, Correctional Services and Natural Resources — have direct and indirect interest.

The LSG is under pressure to gain city council approval of a new landfill by January 1995. The city's current landfill on Eastview Road, now operating on an extension, is scheduled to close by December 1998. □

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WORLD AT GUELPH



Graciele Verzino, a professor at Universidad Nacional de Cordoba, and Peter Williams inspect prosopis seedlings in a community nursery in Argentina.
Photo by Peter Williams, Environmental Biology

Argentinean reforestation draws on environmental biologist's expertise

by Steve O'Neill
Office of Research

Environmental concerns don't recognize national boundaries. A U of G researcher recently lent his expertise to an Argentinean organization dedicated to improving land-use practices and reintroducing species native to the country.

Peter Williams, a research associate in the Department of Environmental Biology, first met with representatives of Argentina's Los Algarrobos, an environmentally active citizens' group, when they visited Guelph in 1991 on a tour of Canadian forestry institutions.

That initial contact led to the group inviting Williams to take part in its forest-rehabilitation project in South America.

"Los Algarrobos recognized that Guelph has one of the most active agroforestry programs in North America," says Williams. "The members felt that our expertise could help rehabilitate their degraded forests, and we felt that the project would broaden our own base of knowledge for work here in Ontario."

New urgency

Reforestation and rehabilitation of degraded forests have taken on new urgency in Argentina. Historically, much of the subtropical, semi-arid country's land has been used by cattle farmers in ways that have had serious environmental consequences.

Many wooded areas have been damaged by overgrazing or by using fire as a vegetation-management tool.

Williams says that although the government recognizes the situation, the country's significant economic problems have hindered attempts to change it.

"There has historically been a lack of funding targeted at for-

estry rehabilitation and environmental protection," he says. "It's only recently that attempts have been made to build an infrastructure to deal with those issues. It doesn't seem that Argentinean society has been in tune with sustainable management practices, and there is an important lack of human resources in the necessary fields."

Grassroots attempt

That's where Los Algarrobos fits in. The group, which took its name from a native leguminous tree, was formed as a grassroots attempt to fill the void. The group lobbies for government and industry funding from both domestic and international sources, establishes and maintains tree nurseries and conducts studies to determine the species of plants most suitable for use in reforestation.

Los Algarrobos also acts as a co-ordinating unit to link sources of expertise. Through it, Williams was brought together with faculty from Argentina's Universidad Nacional de Cordoba (UNC) for a cross-continental exchange of information.

The resulting year-long collaboration was a good example of integrated research, he says. "We looked at ecosystems, their users and the rest of the community."

Much of the research involved evaluating different native plant species for their usefulness in forest rehabilitation. Williams says the exercise will provide important fundamental knowledge, which will be needed when the forest-rehabilitation movement picks up speed.

A number of species of prosopis (a genus of legume including algarrobo itself) are being tested for suitability, and researchers have begun looking at other species. At this stage, it's still a matter of collecting basic information about native trees, says Williams.

Previous forestry efforts were focused on faster-growing exotic species like conifer and eucalyptus; Los Algarrobos is concentrating on growing native species and natural forests.

"The public is becoming more concerned and involved," he says. "As attitudes change, the basic biological information about the best way to proceed must be available."

Williams's involvement in the South American project was sponsored by the International Development Research Centre. He maintains contact with Los Algarrobos and researchers at the UNC.

"The project is ongoing, and we're always looking at different sources of funding to support the work," he says.

Black to chair panel on African communications

The U.S. National Academy of Sciences has reappointed chief librarian John Black to a panel investigating ways to implement communications technology in southern Africa.

Black will chair the Panel on Science and Technology Information Networks in Sub-Saharan Africa for '94/95.

Made up of North American and African members, the panel will review and identify ways to strengthen the planning and management of scientific and technical information systems in selected African countries.

The long-term goal is to link researchers and teachers with the outside world — a difficult task.

"We're having to deal with little, or different, technologies," says Black. "The infrastructure just isn't there, at least not in the sense that we've come to expect and

take for granted in North America and Europe."

Black's panel works under the auspices of the Board on Science and Technology for International Development and is funded by the Carnegie Corporation. □

Networking focus of talks

Edith Cowan University in Perth, Western Australia, is hosting a conference on "International Networking: Education, Training and Change" Sept. 20 to 23.

For registration information, contact Judy Dawes at the International Networking Conference, telephone: 61-9-442-1419, fax: 61-9-383-1786 or e-mail: j.dawes@cowan.edu.au. □

Visitors

The China Association for International Exchange of Personnel (CAIEP) is sending about 100 research and scientific personnel each year to spend short periods at Canadian universities. In June, Lu Chengjiao, Song Li and Sun Tianqi of CAIEP visited U of G to discuss the possibility of short-term attachments and specialized short courses at Guelph.

★ ★ ★

Five visitors from Suranaree University of Technology in Thailand will come to campus in September to participate in a training program emphasizing food engineering.

Terd Charoenwatana, dean of the Institute of Agricultural Technology, and Suwaid Ningnanond, chair of food technology, arrive in Guelph Sept. 12 for two weeks.

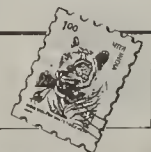
Academic vice-president Prasert Suebka and dean of science Vutthi Bhanthumnavin arrive Sept. 19 for one week. □

HAFA students off to France

Thirty HAFA students will participate in a study-abroad semester in southern France this fall. Profs. John Walsh and Valerie Allan are co-ordinating the program, which runs at L'université Canadienne en France at Villefranche-sur-mer.

The students will take four courses, including an intensive French-language course. A beverage management course will include field studies at famous vineyards. □

POSTCARDS



→ Prof. Christine Bold, English, attended the annual meeting of the British Association for American Studies at the University of Sheffield in England and a conference of the Netherlands American Studies Association in the Netherlands. At both, she presented papers from her work on *The American Guide Series, 1935-1943*. She also developed liaisons on behalf of the Canadian Association for American Studies, of which she is vice-president.

→ Prof. Renate Benson, Languages and Literatures, co-ordinator of the new European studies program, recently visited nine universities in Germany, France, Italy and Austria to secure their co-operation for the program's study year abroad. Based on her visits, new faculty and student exchanges are being developed with the universities of Heidelberg, Vienna, Lyon, Grenoble and Savoie.

→ Prof. Bill James, Engineering, was a member of the platform party last month when Sweden's King Carl Gustav opened a monument to

the environment in downtown Stockholm. The monument consists of two obelisks, depicting air and water. Each side of the obelisks contains a large colored-light display showing various pollutant levels occurring across the city. James attended the opening as a guest of the Stockholm Water Department.

→ The following Guelph faculty and graduate students presented papers at the annual conference of the Canadian Association for the Study of International Development (CASID) at the University of Calgary: Prof. Bill Graf, chair of the Department of Political Studies; Prof. Jim Shute, director of the Centre for International Programs; and students Corin Chater, Craig Benjamin and Cathy Duffy. Shute and Prof. Harry Cummings, University School of Rural Planning and Development, also participated in a round-table discussion of graduate programs in international development studies. During the conference, Cummings assumed the presidency of CASID for 1994/95. □

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NOTICES

Alumni send-offs

For new students preparing to enter U of G this fall, Alumni Affairs will host send-offs in their home towns. Incoming students will have a chance to meet U of G alumni, staff and students Aug. 16 in Barrie, Aug. 18 in St. Catharines, Aug. 24 in Windsor and Aug. 25 in London.

The art of children

The Wellington Woods University Family Housing Tenants Association is holding a summer art program for children aged six to 11, led by New Hamburg artist Gloria Kagawa. An exhibition of the children's work will run Aug. 10 to 12 at the Wellington Woods Community Centre. Hours are 10 a.m. to noon and 3 to 6 p.m.

Equine seminar

The Equine Research Centre offers the day-long seminar "No Foot — No Horse," Part 2, Sept. 10 at War Memorial Hall. Discussion will cover a wide range of issues related to the equine foot. Cost is \$59. Call 837-0061 for information.

Summer hours

If you're planning to visit Career Services, take note of its summer hours. Until Aug. 10, it will be open from 9 a.m. to 4 p.m. From Aug. 11 to 19, hours are 11 a.m. to 4 p.m. The office will be closed from Aug. 22 to Sept. 2.

Kid stuff

Guelph Museums is offering special children's programs in August. A teddy bear picnic, day of games, contests and crafts will be featured at McCrae House Aug. 18 from 2 to 4 p.m. The Royal Ontario Museum's Dinosaurmobile will visit the Guelph Civic Museum from Aug. 25 to 28. Call 836-1221 for more details.

Ag museum events

Coming up at the Ontario Agricultural Museum next month are a country quilt fest from Aug. 12 to 21 and a family corn festival Aug. 28.

Research support

Connaught Laboratories Limited's Canadian Universities Research Program invites letters of intent for 1995 funding. Submission deadline is Sept. 23. For more information, call the Office of Research at Ext. 8761.

Garden tours

Tours of the Gosling Wildlife Gardens in the Arboretum are scheduled on Sundays throughout August. Coming up: "Bug Plants or Plant Bugs" Aug. 7, "Kids in the Garden" Aug. 14, "Water Fea-

tures, Wet and Wild" Aug. 21, "Shrubs for Cover, Color, Fruit and Wildlife" Aug. 28 and a general tour Sept. 4. Meet at the nature centre at 2 p.m.

Veterinary congress

U of G and the American College of Veterinary Anesthesiologists are hosting the International Congress of Veterinary Anesthesia Aug. 21 to 25 on campus. For more information, call Prof. Wayne McDonell, Population Medicine, at Ext. 4095.

Volunteer positions

The Christian Children's Fund of Canada has 27 volunteer positions available from six months to two years for people interested in international development education. Application deadline is Sept. 1. Details are available at the Interna-

tional Education Services Information Centre on Level 4 of the University Centre.

Student conference

The National Student Conference on Northern Studies will be held Nov. 26 to 28 in Ottawa. For registration information, write to the Association of Canadian Universities for Northern Studies, 130 Albert St., Suite 201, Ottawa K1P 5G4.

Growing green

Register early for the Arboretum's full-day workshop on growing trees, shrubs and wildflowers in a way that makes ecological sense. It's being offered twice — Sept. 13 and 17. Cost is \$95. Register at Ext. 4110 by Sept. 2. □

JOBS

As of *At Guelph* deadline July 8, the following opportunities were available:

Residence Porter, Student Housing Services. Salary range: \$13.39 an hour job rate, probation rate \$20 lower than job rate.

Custodian 3. Housekeeping, night shift, two positions. Salary range: \$13.70 an hour job rate, probation rate \$20 lower. □

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UC turns 20

The University Centre celebrates its 20th anniversary this fall. To mark the occasion, a get-together for present and past staff and customers will be held Sept. 24 during Homecoming Weekend. It will be held at the Brass Taps after the football game. To reserve a spot, call Woody at Ext. 3904.

FOR SALE

Bed chesterfield and loveseat with large cushions, cream colored with an underlying blue and light rose pattern, Debbie, 905-523-8363.

Queen-size box mattress; two single box mattresses, used only six months, 837-1789.

1972 VW Westfalia camper with side awning tent, excellent condition, 836-1231 after Aug. 1.

1985 Toyota Tercel, four-door hatchback; microwave oven, quick sale essential, Andrew or Simone, Ext. 4198.

1981 Volvo, red, standard; wedding dress, new, not altered or tailored, size 7/8, Jason or Tiffany, 824-0734.

Tanned sheepskins, machine washable, Cathy, 822-3310 or 853-1639.

Antique Williams piano, 1928, red mahogany; electric clothes dryer, good condition; applewood chips for gardens, 824-7028.

Electric stove, 30-inch, off-white, works well, Ext. 5338 or 821-8592.

FOR SALE

Black leather sectional sofa, recliner and double bed built in; Liberty custom-made dining room table and four chairs, very modern; black wood wall unit, three sections, one with bar, all have recessed lighting and glass-enclosed display shelves, 763-6835.

Pioneer sound system: receiver, CD player, dual tape deck, turntable, four speakers (two JBLs), black stand, 824-2998.

1987 4x4 Dodge Raider, Pioneer stereo, no rust, certified; electric stove, almond, excellent condition; clothes dryer, good condition; Mike, 824-3934.

AVAILABLE

Babysitter, experienced student, Meredith, 821-4058.

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FOR RENT

Two-bedroom apartment, close to Exhibition Park, bus stop at door, walking distance to downtown, tree parking for two cars, available Aug. 1, \$670 a month, 824-5374.

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Two-bedroom basement apartment in Acton, large, newly renovated, separate entrance, \$750 a month inclusive, available Aug. 1, 853-1591.

Three-bedroom house, air conditioning, stove and refrigerator, St. Joseph Hospital/Exhibition Park area, on bus route, available Sept. 1, 822-1196.

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Chest waders for fishing, fly rod and reel, Catrín, Ext. 4134.

Female to share two-bedroom condominium with young working female, Conroy Crescent, must like cats, \$325 a month inclusive, Candy, 837-1195 or Carolyn, 824-3712.

Used dictaphone unit with recorder, in good working condition, 824-7028.

Used Selectric typewriter in good condition, Ext. 3886 or Ext. 6388.

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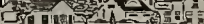
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CALENDAR

THURSDAY, JULY 28

Information Meeting - Animal researchers interested in obtaining support from the Ontario Ministry of Agriculture, Food and Rural Affairs are invited to meet from 1:30 to 4 p.m. in OVC 1714.

Concert - The National Youth Orchestra performs at 8 p.m. at War Memorial hall. Tickets will be available at the door.

FRIDAY, JULY 29

Biomedical Sciences Seminar - "Are GMC Cells Hormonally Regulated?" is the topic of graduate student Marianne Vanden Heuvel at noon in OVC 1642.

Cycling Club - A 25-kilometre off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, JULY 31

Arboretum - A Sunday afternoon walk focusing on prairies in Ontario and in your garden leaves from the nature centre at 2 p.m.

WEDNESDAY, AUG. 3

Cycling Club - A 25-km novice ride to Downey Road leaves from the UC south doors at 5 p.m.

FRIDAY, AUG. 5

Biomedical Sciences Seminar - Graduate student Jorge Mora-Calvo describes a "Pharmacokinetic Study of Eurofloxacin in Calves" at noon in OVC 1642.

SUNDAY, AUG. 7

Cycling Club - A 50-km ride to the Elora Gorge leaves from the UC south doors at 10 a.m.

TUESDAY, AUG. 9

Animal and Poultry Science Seminar - Graduate student Steve Tallam considers "Effects of Continuous Infusion of Oxytocin on Ovarian Function in Holstein Heifers" at 11:10 a.m. in Animal and Poultry Science 306.

WEDNESDAY, AUG. 10

Cycling Club - A 27-km swim ride to Rockwood leaves from the UC south doors at 5 p.m.

Councils extend chair program

The Natural Sciences and Engineering Research Council (NSERC) and the Social Sciences and Humanities Research Council (SSHRC) have extended the program Chairs in the Management of Technological Change. The program will run until four more chairs have been awarded or until March 31, 1996.

A guide containing the program description and application instructions is available from the Office of Research. Applicants are encouraged to contact either council for advice on preparing proposals. □

FRIDAY, AUG. 12

Nutritional Sciences Seminar - Graduate student Jean Rawlings considers "The Effect of Niacin Status on In Vivo Poly(ADP-Ribose) Metabolism" at 11:10 a.m. in Animal Science and Nutrition Branion Room.

Cycling Club - A 25-km off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, AUG. 14

Cycling Club - A 65-km ride to Campbellville leaves from the UC south doors at 10 a.m.

WEDNESDAY, AUG. 17

Cycling Club - A 24-km novice ride to Eden Mills-Speedvale leaves from the UC south doors at 5 p.m.

FRIDAY, AUG. 19

Nutritional Sciences Seminar - Graduate student Lisa Woodside discusses "Regulation of Nucleo-

side Transport in R2 and C10 Cells by Polyunsaturated Fatty Acids." Kathleen Williams discusses "Mechanisms of Cell Death in NB4 Cells Treated with Calcitriol and All-Trans Retinoic Acid." The talks begin at 11:10 a.m. in Animal Science and Nutrition 141.

Cycling Club - A 25-km off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, AUG. 21

Cycling Club - A 42-km novice ride to Hespeler/Maryhill leaves from the UC south doors at 10 a.m.

FRIDAY, AUG. 26

Nutritional Sciences Seminar - Paul Trayhurn, head of biochemical sciences at Rowett Research Institute in Aberdeen, Scotland, discusses "Uncoupling Protein in Brown Adipose Tissue: From Thermophysiology to Nutritional Energetics" at 11:10 a.m. in Animal and Poultry Science 141.

WORSHIP

Catholic mass is celebrated Sundays at 10:10 a.m. in the School of Landscape Architecture lobby.

Multifaith calendar

Aug. 1 is Kamal, the eighth month of the Baha'i year. Aug. 20 is Asma, the ninth month.

In Zoroastrianism, Aug. 13 to 22 are Fravardegan Days, 10 days in preparation for Naw Ruz. Naw Ruz, the beginning of the year 1363 A.Y. (After Yazdegird III, the last of the Persian kings) is Aug. 23.

In Islam, Aug. 18 is Maulud-un-Nabi, the anniversary of the birth of Muhammad.

For Buddhists, Aug. 20 is Ulambana, a day when offerings are made to the Triple Jewel (the Buddha, the Dharma and the Sangha) on behalf of ancestors.

In Hinduism, Aug. 21 is Raksha Bandhan, a festival in which girls and women tie amulets on the wrists of their brothers for protection against evil. Aug. 29 is Sri Krishna Jayanti, celebrating the birth of Krishna.

In Jainism, Sept. 2 is Paryushana-parva, the holiest period of the year. It is celebrated for eight days by the Svetambara sect. It concludes Sept. 9 on Samvatsari. From Sept. 9 to 18, the Digambara sect celebrates Paryushana-parva, concluding with Ananta-Chaturdasi (the Festival of the 10 Virtues).

Sept. 6 and 7 are Rosh Hasha-

nah, the beginning of year 5755 of the Jewish calendar and the anniversary of the creation of the world. It is the first of the 10 Days of Awe. Sept. 15 is Yom Kippur, the Day of Atonement. This holiest day of the year begins at sundown Sept. 14 and is marked by fasting.

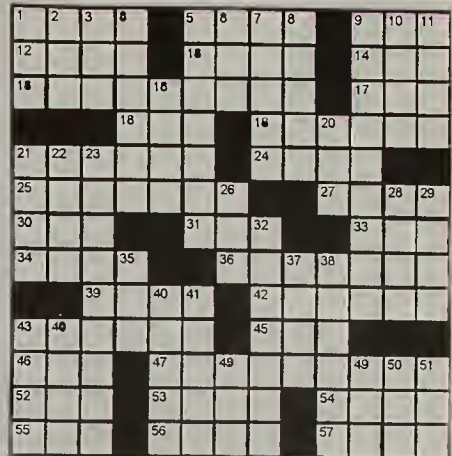
Reprinted with the permission of Canadian Ecumenical Action. □

POSITIONS ELSEWHERE

Ryerson Polytechnic University invites applications and nominations for the position of president and vice-chancellor, to assume duties Sept. 1, 1995. Send applications and nominations to Janet Wright at the LandMark Consulting Group Inc., 1455 Lakeshore Rd., Suite 206-S, Burlington L7S 2J1.

Georgian College in Barrie is seeking a project manager to coordinate and develop an education and training project for key decision makers in harassment and discrimination prevention in Ontario postsecondary institutions. Application deadline is July 29. Position details are available from the Office of Employment and Educational Equity on Level 4 of the University Centre. □

Canadian Criss Cross by Walter D. Feener



ACROSS

1. "Born Free" lioness
5. Price paid
9. Stocky horse
12. Cut with a sickle
13. With the bow, in music
14. Presidential nickname
15. Space traveler
17. Killer snake
18. Neighbor of Man.
19. Having stripes
21. Nebraskan Indian
24. Winged
25. Collected together
27. Bridge calls
30. Suffer a penalty
31. Be off guard
33. By way of
34. Geological fault
36. Churn rotators
39. Saracen
42. Artful fellows
43. More dapper
45. Commit to memory
46. Foot digit
47. Rubberneck
52. Reach a destination: abbr.

DOWN

53. Mental concept
54. Eye
55. It is so
56. Be giddy
57. Ornament with tonsus
1. Series of years
2. "Miserables"
3. Before Sun.
4. Hangar areas
5. Snack bar
6. Mouths
7. Diver's apparatus
8. Wreck beyond repair
9. Hack
10. Double-reed instrument
11. Gun sight
16. Dollar bills
20. Seize suddenly
21. TV personality
22. Both prefix
23. Foot travelers
26. Progenitor
28. Dagger
29. Talk disrespectfully to
32. Of Easter
35. Examine judiciously
37. ___ put (field event)
38. Two-wheeled carriage
40. Race of Norse gods
41. Treader of the middle aisle
43. Stand still
44. Examine diligently
48. Thousand dollars
49. Self-esteem
50. British measure
51. Rock group Simply ___

For crossword solution, see page 4.

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Wasn't that a party?

A good time was had by all July 14 when 1,000 people turned out for the Community Barbecue. Above left: *Ontario* editor Todd Battenham learns the true meaning of the expression "Man overboard" as he takes a turn at the dunk tank. Above: The Twilites, featuring Jack McGary, left, and Bob Jeans, get the nostalgia flowing as they swing through some big band tunes. Below: Face painting was a big hit with members of the younger set like, from left, Colin and Kyla McKee, with their mom, Sharon, and Bree and Kaitlin Chaput, with their mom, Cathy. Below left: Still wet from the dunk tank, Dino Scrementti is led in handcuffs by Const. Robin Begin to the podium to receive the Community Service Award for 1994. Known as the "Superfan" because of his ardent support of campus and local sports, Scrementti is assistant manager of the Gryphs Pro Shop. Left: Burger-flippin' Jody Foster rustles up some grub for the hungry hordes.

Photos by Trina Koster



FIRST GLANCE

Welcome back!

Where did the summer go, you ask. Officially, it's still here until Sept. 21, but we're laying odds that it's already packed up and left for Antigua. The arrival of U of G's 13,000 students on campus for the fall semester is always a sure sign that summer is almost over. But fall is nice, too, and we're glad to have you all back. Hope you have a great semester.

The number to call

Calling Waterloo? Don't forget to include the 519 area code when you punch in the phone number. All long-distance connections now require that you include the area code.

If you've programmed long-distance numbers in the 519 area code into your telephone, you'll have to change them. This is all part of an effort to standardize telecommunications across North America.

Inside:

Included with this issue of *At Guelph* are supplements from the Macdonald Stewart Art Centre, the U of G Library and Homecoming Weekend, and inserts from the Bookshelf and the Springfield Golf Club.

Funding delay pushes Gordon Street closure into fall 3

Academic-planning report sparks campus discussion 3

Task force identifies \$400,000 in potential benefit savings . . . 4

Thought for the week

The worst part of success is to try finding someone who is happy for you.

Bette Midler



They're the tops!

Newest winners of U of G's \$16,000 President's Scholarships were honored with a reception at the Arboretum last week. Standing, from left, are former president Burt Matthews, who initiated the awards, Julie Corbett, Kirsty

Bell, Nicola Calder, Marty Beecroft, Jennifer Dinaut, Elliott Welch, JoAnna Leyenaar, president Mordechai Rozanski, Stephanie Orfice, Benjie Albrecht and Patrick Lett, donor of the Dick Brown Scholarships. Seated

are Ryan Ness, Juniper Glass, chancellor Lincoln Alexander, Meredith Hunter, Andrea Hammer and Rooney Merkey. A supplement on the President's Scholars will appear in *At Guelph* in October.

Photo by Tina Koster

Aquatic science, physical plant get \$4.6 million

by Mergeret Boyd
University Communications

Six new campus projects totaling \$4,695,300 were announced by Guelph MP Brenda Chamberlain, MPP Derek Fletcher and president Mordechai Rozanski at a news conference Sept. 9.

The projects, approved under the Canada/Ontario Infrastructure Works program, include a \$1.86-million infrastructure grant to U of G's new aquatic science facility and funding for a wide range of maintenance work.

"The University is extremely gratified to receive this support," Rozanski said.

The funding is designated as follows:

- \$1.86 million for the \$6-million aquatic facility, which is to begin construction this fall and should be completed by December 1995;

- \$989,000 to improve accessibility for the handicapped and

to upgrade fire alarm systems, incinerator exhausts and elevator safety;

- \$487,000 for exterior renewal to campus buildings, roof repairs and flooring;

- \$153,000 to replace, repair and upgrade sidewalks, roads and related services;

- \$123,000 to improve the heating, ventilation and air condi-

tioning systems in the Chemistry and Microbiology Building, the vehicle service shop and Alumni House.

- \$98,000 to improve energy conservation by replacing components in the campus chilled-water and de-ionized water systems.

At the news conference, Chamberlain described the pro-

jects as "the result of development, sharing and encouragement" among the parties involved. She noted that Ottawa has a mandate to improve the physical infrastructure of Canada, which includes improvements to transportation and communication links, better sewer and water systems, improved public buildings

See *AQUATIC* on page 3

Photocopying easier under agreement

Getting permission to reproduce copyrighted works is a lot easier now that U of G has signed a contract with CANCOPY, the Canadian Copyright Licensing Agency.

The two-year contract gives Guelph students, faculty and staff the right to copy printed materials such as journal articles, short stories, excerpts of works and poems, says Mary Cocivera, director of University Communications and chair of the campus copyright

committee.

The licence covers two types of copying. The first is copying for personal study or research or the "spontaneous" making of copies for free distribution to a class. For this, the University will pay CANCOPY an annual fee of \$2.50 per full-time-equivalent student or about \$34,000. This fee will be recovered through a one-cent increase in the cost of copying with

Vendacards in the Library.

The licence also covers making copies of published works for use in course packets that are sold to students as part of class materials. A fee of 3.5 cents per printed page will be levied for royalty payments and included in the price of the course packets. CANCOPY will distribute these royalties to copyright holders.

See *CANCOPY* on page 3

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Farcus

by David W. Squires
Gordon Colburn

"Damnit I'm all out of disposable paint cans."

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Correction

Students interested in the Canadian University Student Exchange Consortium program should see their academic or program counsellors about applying under the "exchange agreement" procedure, not under the "letter of permission" procedure as stated in the July 27 issue of *At Guelph*. □

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At Guelph welcomes contributions from the University community, including letters to the editor, opinion pieces, publications and news about faculty, staff and student activities. Deadline is Wednesday at noon unless otherwise specified. Articles may be reprinted with permission of the executive editor.

At Guelph headlines top stories and coming events can also be accessed on GRIFF. Offices: University Communications, Level 4, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Telephone: 519-824-4120, Fax: 519-824-7962. Office hours: 8:30 a.m. to 4:45 p.m.

LETTERS

'Social science' has served well for more than 200 years

The Academic Planning Committee would abolish the name of "social science," if not also the core work of the social sciences, in its proposed reorganization of U of G.

So also would FACS go as a name, although this is to lose the term for the phenomena studied — the family and consumer behavior — rather than the notion of a discipline per se.

Many members of FACS were trained as, and would consider themselves to be, social scientists. The two colleges, CSS and FACS, would be combined into a new College of Human Resources and Management.

Let me immediately declare a conflict of interest. Just this year, I published two books with "social sciences" in the title: *The Early Origins of the Social Sciences* and *The Women Founders of the Social Sciences*. I do not regret the lack of notice of a name change for the college: *The Early Origins of Human Resources Management* would not do!

Why am I so enamored of the term "social science"? The expression came out of non-violent advocacy for social reform in the French Revolution. It was possibly first used by the great encyclopedist, mathematician and feminist Condorcet.

Social science, he argued, was needed to ground the social art, to make society better and to reduce poverty, illiteracy, injustice and

misery. It was always intended to be applied: knowledge for implementation. But there had to be a science on which to ground the arts of application.

In the current proposal, it is not clear that social science as a body of disciplines would survive, as opposed to there being some social scientists giving some courses in some departments for some problem-oriented programs. Because some sociologists would be sent to the departments of Family Studies (in a new college) and Rural Studies (in a revamped OAC), and the anthropologists — who play a critical role in the current delivery of the sociology program — would be dispatched to a new unit, would there be a sociology program as such?

If people wish to get rid of a term that has served well for more than 200 years, they should have a sat-

isfactory replacement for it. Yet what an embarrassment is "human resources and management." There would be confusion with the existing department of Human Resources, which has precise functions related to what used to be called personnel.

"Human resources" is a business term, reminding us that people, like capital, are resources to be used, the object being to put together a mix that produces the highest profit. Is this really what we're all about?

Business schools teach "management," understood as the running of business enterprises. It would be a rash promise indeed to suggest that we are able to teach how to manage society in any significant way.

Environmentalists protest the term "natural resource management" for similar reasons. How

can anyone, they ask, claim to manage a forest when we have not even studied thousands of the species that live in its soil?

If two colleges are to be merged, there is some merit in seeking a new name for the new unit that does not make either component feel that it has lost out to the other. But it is hard to see that the new name proposed portrays what FACS is and does any more than it does for the social sciences.

If a merger is to proceed, perhaps the two colleges ought to get together to find a better name. That, of course, presupposes that the more basic problems of the proposal are dealt with, including the place of the social sciences at this university.

Prof. Lynn McDonald
Sociology and Anthropology

Loyalty, dedication will not be regained

I wish to comment on the July 27 *At Guelph* article about the special early retirement program.

The glee with which it is announced that such a high percentage of eligible employees had applied for and been granted early retirement strikes me as a little unseemly.

Although I realize that no one has been coerced into this step, I wonder if the administrators fully understand what they have wrought. The University will never regain the loyalty and dedication that have been a part of the people who are leaving. The

expertise and commitment will not easily be replaced. Those who remain know that in a few years, they will be expendable and they will govern themselves accordingly.

Surely it must be distressing to be suddenly considered a "SERPer" and part of a \$6.1-million cost rather than a respected and valued member of the University community. Perhaps a few apologies to the retirees are in order.

Margaret Berry
Applied Human Nutrition

CANCOPY licence goes beyond fair dealing limits

Continued from page 1

The Association of Universities and Colleges of Canada (AUCC) negotiated the model contract with CANCOPY on behalf of all Canadian universities, says Cocivera. But each university signs its own contract that covers its unique situation.

Canadian copyright law allows making copies for private study, research, criticism, review or newspaper summary under the concept of "fair dealing." It's generally accepted that fair dealing

allows copying of a portion — probably not more than 10 per cent — of a whole work.

The CANCOPY licence allows copying beyond the limits of fair dealing for works represented by CANCOPY. The licence spells out the limits allowed and provides a provision for seeking permission for copying beyond the limits. The exclusions list lists works and publishers that are not covered by the licence.

Seeking permission to copy published works from individual copyright holders has been time-consuming, tedious and frustrating, says Cocivera. The CANCOPY licence will simplify the process.

"If the work is not on the exclusions list, you can assume you have permission to copy it," she says. "If the work is on the exclusions list, you can seek permission through CANCOPY or from the individual copyright holder. The tariff on copying works on the exclusions list will probably be more than the standard 3.5 cents a page."

The exclusions list is not long, she says, but it does include some significant publishers and works, such as the Harvard Business School publications, University of Western Ontario Business School, University of Chicago Press, American Medical Association and the American Chemical Society. In general, works published in the Netherlands are excluded from the licence.

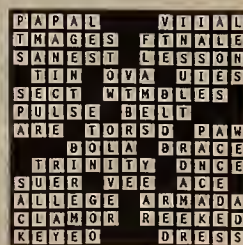
The exclusions list will be available at the library and in the bookstore and will be distributed with other copyright information to all academic departments.

Producing course packets will also be easier under the terms of the licence, says Cocivera, but specific information about the published work must be submitted to CANCOPY with the fees. Anyone who wishes to create a course packet must work through the bookstore on copyright issues to ensure that the appropriate records are kept and fees paid to CANCOPY.

Any questions about copyright related to course packets should

be directed to Jennifer Matz at the bookstore, Ext. 3584.

The copyright committee is developing a strategy to inform faculty, staff and students about the CANCOPY licence and how it changes the copyright scene on campus, says Cocivera. Committee membership includes faculty, staff, a librarian, an undergraduate student and a graduate student. More complete information about copyright, the CANCOPY licence and producing course packets will be sent to faculty and staff during the fall semester. □

UNIVERSITY
of GUELPH

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Canada/Ontario INFRASTRUCTURE WORKS TRAVAUX D'INFRASTRUCTURE Canada/Ont.



Celebrating the announcement of \$4.6 million in funding for U of G are, from left, CBS dean Bruce Sells, president Mordechai Rozanski, MP Brenda Chamberlain, MPP Derek Fletcher and Department of Zoology chair Paul Hebert.

Photo by Maurice Oishi, University Communications

Aquatic facility to tackle marine issues

Continued from page 1

and more efficient use of energy.

Fletcher stressed the importance of the federal and provincial governments and the University working together. He said Ontario is committed to supporting projects that benefit society.

Rozanski spoke of the need for a new aquatic science facility and its importance to teaching and research and to the future of Canada's water resources.

"These facilities will help the University preserve and protect our invaluable resources — water and the numerous organisms that live in it — for the benefit of all," he said. "The collapse of the Mari-

times cod fishery and the invasion of zebra mussels in the Great Lakes dramatically demonstrate our country's need for greater expertise, knowledge and management in aquatic matters."

Prof. Paul Hebert, chair of the Department of Zoology, said the aquatic facility will address imperative issues related to Canada's marine resources. Especially important is the development of marine aquaculture, which will replace the collapsed East Coast fisheries, he said. "It is unreasonable to believe that the people on the East Coast have lost their jobs in perpetuity."

Guelph's existing equipment

and facilities to support teaching and research in aquatic sciences are seriously outdated and inadequate, said Hebert. The facilities are scattered across campus, consume large amounts of water, have difficulty complying with animal-care regulations and do not permit research to be done under precisely controlled environmental conditions.

The new facility will have enhanced capabilities for undergraduate teaching and will support the research activity of more than 100 graduate students, he said. The facility will consist of two components — Aqualab and the Institute of Ichthyology. □

Late funding delays Gordon closure

by Maurice Oishi
University Communications

Late funding announcements are to blame for the delay in an estimated three-month closure of the stretch of Gordon Street that runs through campus.

Reconstruction now under way on Gordon from Stone Road to College Avenue was supposed to start this spring, says Roger Jenkins, director of Physical Resources, but government approval of Canada-Ontario Infrastructure Works funding for the project arrived later than anticipated.

The reconstruction is the first phase of a city plan to restore Gordon Street from Stone Road to Wellington Street. The current project includes replacing the roadway, curb and sidewalks along Gordon between College and Stone. The city will also widen the intersection at Gordon and Stone and add left-turn lanes on to South Ring Road, McGillivray Street and the P-2 parking lot. Bicycle lanes will also be provided.

Jenkins acknowledged the imposition that construction will put on drivers, but he says co-operation between the city and the University will minimize the impact on parking. Most parking lots with entrances on Gordon will still be

accessible via College or Stone.

Only the lot between the Chemistry and Microbiology Building and the Reynolds Building, P-2, has sole access via Gordon. The city has agreed to do construction in two phases, ensuring that the lot is accessible by either a north or south stretch of Gordon at any given time.

"There may be one or two days when they will have to close the lot completely, but we've asked them to give us as much notice as possible," Jenkins says.

The Central Student Association (CSA) had petitioned the city to repair the potholed roadway and add bicycle lanes, but hadn't expected the repairs to be done at such an inconvenient time, says CSA local affairs commissioner Kate Armstrong. Although the unlikely timing of the repairs "looks like a conspiracy against students," she says, "it's something that we've waited for for five years. It's now or who knows when."

Bus service through campus will be rerouted. Guelph Transportation Services routes will still stop on College Avenue, on East Ring Road and at the University Centre, but will not stop on Gordon Street between College and Stone. Greyhound lines will no longer stop near the Short Stop Variety on

College, but only south of Stone on Gordon.

The situation could be worse, says Jenkins. After government approval of the funding, the city had intended to begin construction late in August, overlapping with the return of students to campus for the fall semester. The city agreed to delay the start of construction until Sept. 12, following discussions with Physical Resources, he says. □

Academic-planning proposals provoke spirited discussion

The Committee on Academic Planning — one of 11 strategic-planning committees established in July — issued a challenge to academic departments last month when it circulated its "very preliminary report" on possible academic structures based on consideration of undergraduate matters.

A second report from the committee dealing with graduate and research issues was distributed late last week. This document incorporates changes to the first report made as a result of direct responses to the committee.

The committee was charged with identifying strategic directions and unifying themes for the University, assessing current structure, and developing and applying criteria for continuation of specializations and courses. The first report presents several models of academic structure, all of which address the relationship among departments, colleges and program committees.

The proposals concerning the realignment of departments and colleges have already generated considerable discussion and some distress across campus, says Strategic-Planning Commission (SPC) chair Prof. Bev Kay, Land Resource Science.

Prof. Nigel Bunce, Chemistry and Biochemistry, chair of the Committee on Academic Planning, noted in his covering memo that the proposals were not recommendations and had not been discussed by SPC. Both reports were being circulated at an early stage for comment and input from colleges, departments and schools, says Bunce.

To ensure enough time for response from the academic community, the deadline for comment on this report was extended to Sept. 30. The Committee on Academic Planning will have until Oct. 30 to develop recommendations for SPC consideration.

The reports are providing the incentive to members of the academic community to focus on an assessment of current structures and development of innovative alternatives where necessary, says Kay. He believes the extended time frame will allow for greater debate among faculty, staff and

students and the evolution of a clearer understanding of where Guelph should be going and the structures that will help it get there.

Although the proposals on academic structure generated immediate and widespread response, he hopes the campus community will not become preoccupied with academic structure and overlook other important issues, such as the implications of a learner-centred university, the semester system, the role of alumni, resource allocation models, terms of appointment and performance evaluation, which will be raised during the strategic-planning process.

Most of the SPC committees set up in July have completed their reports, which will be posted on GRIFF. An additional committee was recently struck to look at co-operative programs in relation to the semester system and the learner-centred university.

SPC will publish a comprehensive report in mid-November that will build on the reports of the SPC committees and responses to "Framing the Choices." The University community will have an opportunity for input and comment until Jan. 31, 1995; the final report will go to the president Feb. 28. This represents a three-month extension of the original timing.

The initial compressed schedule for the strategic-planning process was determined in part by the social contract period, which ends in April 1996. U of G will face a major budget problem when the social contract's salary reductions are lifted then.

The special early retirement program (SERP) has alleviated some of the urgency because salary savings from the retirements will reduce the budget enough to absorb salary commitments after the social contract.

Although the immediate budget crunch has been alleviated through SERP savings, other threats remain, including cuts in federal transfer payments and recently announced recommendations from the Ontario Council on University Affairs for a funding formula that is unfavorable to the University. □

Search is under way for two VPs

Two searches have been launched to find successors to academic vice-president Jack MacDonald and administrative vice-president Charles Ferguson.

Both VPs are taking advantage of early retirement opportunities, with Ferguson stepping down in December and MacDonald retiring next August.

Faculty policy dictates the composition of the selection committee for academic vice-president. Chaired by the president, it consists of one non-faculty member of Board of Governors, three faculty members appointed by Senate (one must be a dean), two students appointed by Senate (one must be a graduate student) and one of the registrar, chief librarian or a director reporting to the president.

The Senate Bylaws Committee is to ask Senate Sept. 20 to approve Senate's representatives to the selection committee.

The search for administrative vice-president is also headed by the president, who is working closely with B of G members and consulting with senior administrators, various advisory groups and staff who report to this position.

Any member of the University community who wishes to make comments or suggestions about the kinds of candidates the committees should be seeking should forward them in writing to the president.

President Mordechai Rozanski says there will be several opportunities for the University community to meet the candidates for administrative vice-president before the position is filled.

Meanwhile, the search for a new vice-president for University affairs and development continues. The position is expected to be filled shortly, says Rozanski. □

Potential \$400,000 in benefit savings identified

Two initiatives that could save U of G some \$400,000 in benefits costs have been recommended in an interim report by the Presidential Task Force on Group Benefits.

A positive enrolment program and taking advantage of lower dispensing fees offered by some Guelph pharmacies could reduce the cost of Guelph's extended medical insurance plan without affecting employee coverage, says U of G treasurer Roger Phillips, who chaired the task force. Both proposals will cut costs that the University bears for employment benefits, addressing what he calls "top-line items with bottom-line savings."

Guelph's extended health-care plan paid out \$3.3 million in claims in 1992/93, the most recent fiscal year for which numbers are available. The task force estimates that U of G could save up to \$200,000 by reregistering all employees for benefits. This would include updating the name and birthday of each family member covered by the plan and acquiring the name of a spouse's employer.

President Mordechai Rozanski says Guelph will move ahead on the positive enrolment program.

This approach will save the University money by ensuring that medical charges are billed to the correct benefits plan in cases where families have more than one policy, says Phillips. By in-

surance industry convention, the policy of the spouse whose birthday falls earlier in the year should pick up the tab for children's extended health-care claims.

Phillips says a positive enrolment program won't exclude employees from using their U of G extended health-care coverage if the spouse has a less generous plan. If, for example, a spouse's plan covers only 80 per cent of the eligible cost, Guelph's plan will cover up to the remaining 20 per cent, excluding the U of G plan's deductible amount.

"This mechanism will not change the benefit levels one iota," he says. "It's just getting the University in line with industry practice."

The second recommendation deals with pharmacy dispensing fees. Pharmacies in Guelph charge a fee for dispensing drugs, ranging from \$6 to \$12, which is added to the cost of prescription drugs. U of G's extended health-care plan pays the cost of prescribed drugs, including the dispensing fee, less \$1 deductible.

The University pays for eligible insurance claims made by employees, plus a fee to the insurance company that administers the package. As a result, reducing charges such as dispensing fees means direct savings to the University, Phillips says.

"Employees should be made

sensitive to the fact that the dispensing fee varies from pharmacy to pharmacy."

Currently, Guelph's health-care plan covers \$500 prescriptions a year, he says. The average dispensing fee is \$10. "When you figure that you can save \$3 to \$4 per prescription, we can save \$200,000 by being aware of what we're being charged."

Jane Watt, assistant vice-president for human resources, says her department will conduct an information campaign to encourage

employees to take advantage of lower rates. She notes that dispensing fees are posted in all pharmacies.

Members of the task force were Prof. Chris Gray, Physics; Don Gruber, Structural Shop; retiree Ellen Johnson; Norma Seibert, University Affairs and Development; Peter Smith, Zoology; and vice-chair John Van Esch, Food Science. Watt and Vic Reimer of Human Resources served as committee resource people. □

Students run a class act

It's never too early to foster a good idea.

A new program called Class Act is looking to students of the graduating class of '95 to contribute \$95 each to U of G. It's a gift that can go far and that the program's student organizers hope will seed future donations to the University.

Mark Stevenson, a graduate student in political studies, and Richard Vollans, an undergraduate in biological sciences, are co-chairs of the program. In recent years, students have become keenly aware of what government cutbacks mean to universities, says Stevenson. Students often take the brunt of reduced operating budgets through downsizing of library acquisitions and fewer equipment purchases, he says.

Doing more with less might be the current economic credo, says Stevenson, but it doesn't necessarily make for quality education. The motivation behind Class Act is to help offset these cutbacks and help ensure the quality of education at U of G. "After all, it's an investment students can make in their own education."

Modelled after a growing num-

ber of successful programs at other universities, Class Act hopes to raise \$95,000.

Students will be informed of the program over the next two semesters, with pledges being solicited late in the winter, says Stevenson. Students can specify where they would like their contribution to go and fulfil their pledge with a lump-sum payment or gradually over three years.

Dinnie Baker, development officer in University Affairs and Development, lauds the student effort and hopes it will continue as an annual program. "They've really taken a good idea and run with it," she says. "It's a great way to encourage a trend among our young alumni to give to their alma mater."

Class Act's current drive is to raise membership, says Stevenson, who notes that volunteers are needed in all aspects of the program. A meeting for volunteers will be held Sept. 21 at 5:30 p.m. in Room 120 of the MacKinnon Building. For more information about the program, call Ext. 6674. □

Residences respond to changing population

by Maurice Oishi
University Communications

The growing ranks of female students on campus have put unique pressures on residence housing for the fall semester.

The problem is this: Women make up 68 per cent of the entering student population, but relatively few are interested in all-female accommodation. The solution, says Blair Capes, assistant director of Housing Services and Family Housing, is to change the allocation of co-ed spaces, opening up more rooms of the type preferred by students.

Typically, co-ed space has been set up with a 50:50 ratio of women and men. "The revised co-ed space is closer to 60:40 or 70:30," says Capes. "Our students and staff have indicated quite clearly that this is preferable to a surplus of single-sex female space."

Mainly in South

The changes in allocation are occurring largely in South Residences. In North Residences, physical limitations such as the location and number of bathrooms make it difficult to move away from the conventional 50:50 standard for co-ed space, says Capes.

Maids Hall, a former all-female residence, has been converted into Arts House, a living-learning centre. Of four such centres on campus, it's the third to acquire its own separate residence.

"Over the last few years, the demand for Maids Hall has decreased," says Capes. "The time was right. The size — 50 students — was right. In doing so, we freed student space in Lennox-Addington (former home of Arts House), which is a very popular space for both our entering and returning students."

Another change is a doubling of space allotted to the popular first-year program University College Connection.

With more than 4,100 students in residence and a growing demand for space for women, the structure of residence is likely to continue changing, says Capes. "We've only started to address some of the issues." □

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Obituaries

Garry Tatum, manager of Telecommunications Services in Computing and Communications Services, died suddenly Sept. 9 at the age of 52. He had worked on campus for 12 years and is survived by his wife, Jane, and one daughter, Sarah.

Memorial contributions may be made to the Rotary Foundation care of the Rotary Club of Guelph, Box 511, Guelph N1H 6K9. A tree in his memory will be dedicated in the Wall-Custance Memorial Forest in the Arboretum Sept. 24 at 2:30 p.m.

Carol Godin, who retired

from Housekeeping in August after 18 years with the University, died Sept. 7. She was 57. She is survived by her husband, Angelo, four children and five grandchildren.

Samira Kahaili, a research assistant who joined the Department of Food Science in June, died Aug. 6. She was 36 and is survived by her husband.

Jack Stites, who retired from the OVC Dean's Office in 1988 after 19 years with the University, died Aug. 28. He is survived by a son and daughter. □

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Prof. Frank Humik says the robotic milker is a revolutionary concept for animal welfare because it won't work without a cow's co-operation. Photo by Trina Koster, Office of Research

Robotic milker designed to reduce farm labor, enhance animal welfare

by Steve O'Neill
Office of Research

Ontario dairy farmers are world renowned for both their level of production and their high regard for animal welfare. A robotic milker being tested at U of G may increase milk production even further, while improving the quality of life — for cows and farmers.

Dairy farmers currently spend 50 to 60 per cent of their working time milking their animals — herding them into the milking parlor, operating cumbersome milking machines and herding them out again.

"It's a demanding and tedious job," says Prof. Frank Humik, Animal and Poultry Science, "and it has to be done at least twice a day, seven days a week, 365 days a year."

Cows milk themselves

A prototype robotic milker manufactured by Holland's Prolion Company may change all that. The new machine essentially allows cows to "milk themselves." At Prolion's request, it's being tested at the Elora Dairy Research Station.

The three-year project is being conducted by a multidisciplinary research team co-ordinated by Humik and colleague Prof. Brian McBride. It includes other members of the Department of Animal and Poultry Science, scientists from the Department of Population Medicine and staff and technicians at the research station.

"Ontario's long tradition of advancing dairy farming methods — as well as Guelph's worldwide reputation in research — attracted Prolion to us," Humik says.

Here's how the high-tech procedure is designed to work. Each cow in a herd is put on a schedule, determining when and how often it's to be milked. That information is then fed into a database. In the final stage of the project, the herd will be allowed around-the-clock access to the milking parlor, and each cow will be equipped with an

identification tag. When a cow approaches the milker, the machine's sensors will identify the animal by its tag and automatically check with the database to determine whether it's time to milk that cow. If it is, a door swings open to let the animal enter the milker; if it's not, the door swings the other way and the cow rejoins the herd.

Cows find being milked a pleasant experience and naturally know when they're ready for milking, says Humik. "As long as a milking machine is comfortable and non-threatening, cows shouldn't have a problem with it." To get the cows used to the machines, they may be offered "treats" in the form of extra feed when they enter the milker, he says.

Once a cow is inside the milker, a sensor-equipped robotic arm automatically passes under the udder, determining the positioning of the teats. A computer reads that information and prepares a cluster of milking cups — custom arranged for that particular cow — which attaches itself to the teats. The computer then measures the flow of milk. Once it slows to a predetermined rate, the cups detach, the milker's door swings open, and the cow rejoins the herd.

The robotic milker can accommodate two cows at a time. Presuming that each animal takes eight to 10 minutes to be milked, upwards of a dozen cows could pass through in an hour when the machine is working at optimum

performance. Although someone would always have to be on hand to oversee the process, Humik says the farmer's role would be "more supervisory and less mechanical than it is now."

In addition to saving labor for the farmer, the automatic milker has other benefits. Most farmers now milk their cows about twice a day; to do so more often means incurring increased labor costs. A less laborious method could allow cows to be milked three or even four times a day, increasing milk yield by a projected 10 per cent.

Prevent mastitis

Humik says milking three times a day might also help prevent mastitis, a disorder in dairy animals.

As chair of the Canadian Expert Committee on Farm-Animal Welfare and Behavior, Humik is particularly aware of the potential benefits to animal welfare that the robotic milker could offer. He says the revolutionary concept behind this new technique is that it's contingent on the cow's co-operation. If a cow is not comfortable with the milking process, it will simply avoid the milker.

"From an animal-welfare standpoint, this is very important," he says. "For the process to work, the milking machine must act in harmony with the cow's psychological and physiological comfort." □

Union of educational workers launched

The newest and potentially largest labor union at U of G was expected to be certified by the Ontario Labor Relations Board this week.

The Canadian Union of Educational Workers (CUEW) will represent graduate and undergraduate teaching assistants, academic graduate service assistants and contracted sessional lecturers.

At Aug. 29 hearings of the labor relations board, CUEW and the University negotiated the definition of the two bargaining units, one for sessional instructors and one for teaching and academic service assistants.

The vote to unionize was held April 7 and 8. But the University contested the inclusion of sessional instructors, contractually limited faculty, part-time and retired faculty, postdoctoral fellows and non-academic graduate service assistants in the proposed CUEW membership.

The ballot boxes remained sealed pending the outcome of the board hearing.

Bruce Anderson, manager of Employee Relations in Human Resources, says he's satisfied with the decision to create two separate bargaining units.

CUEW organizer Mike Groom says he's also pleased with the board's decision, although he notes that negotiating on two fronts puts the union in a weaker bargaining position.

"But I'm just ecstatic that our supporters voted to bring the un-

ion to the University of Guelph," he says. "Now everyone is represented."

Of the 113 contracted sessional instructors eligible to vote at Guelph, 48 cast ballots, with 35 favoring creation of the local. Of the 778 graduate students eligible to vote, 184 voted in favor of the union and 180 voted against.

Groom says the board will probably issue certificates to the bargaining units this week, barring appeals on the ballot counting. After that, the union will begin to solicit feedback from members with a questionnaire.

This information will be used to prioritize demands as the bargaining units prepare to meet with the University administration, he says.

Groom foresees issues like wages, benefits, anti-harassment policies, medical benefits and health-care coverage for international students to be high on the union's agenda.

Both Groom and Anderson agree that negotiating the collective bargaining agreements from scratch will take some time. In the more immediate future, says Groom, the union will focus on informing its membership about their rights and privileges.

CUEW represents more than 11,000 members in 11 locals across Canada. □



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NOTICES

New stickers

New validation stickers for U of G employee cards are now available from department secretaries and administrative assistants. The old stickers expired Sept. 5.

Moe music

Jazz sax and flute player Moe Koffman and his quintet play a benefit concert for the Guelph Civic Centre Sept. 16 at 8 p.m. at War Memorial Hall. Tickets are \$25 and are available at the University Centre box office.

Art exhibit

"Abroad: A Traveller Paints," a show of paintings by retired philosophy and fine art professor George Todd, is at the University

Club on Level 5 of the University Centre until Sept. 30.

Hit the trail

The Fat Tire Festival, a fund raiser to maintain the recreational trail system in the Cambridge area, will bring cyclists together Sept. 17 and 18 for a Cambridge trail tour and races. For information, call 519-658-8175.

Community info

Community Information Centre Week Sept. 18 to 24 is a good chance to learn about the United Way-sponsored service, which acts as a clearinghouse for information about the Guelph community and its services. To get involved, drop by the centre or call 821-0632.

Play on

The Guelph Music Ensembles have launched another season of music making. Six different campus ensembles cater to most musical interests. Play an instrument or sing? Sign-up sheets are posted outside Room 209 of the MacKinnon Building or call the Department of Music at Ext. 3127.

UC turns 20

The University Centre celebrates its 20th anniversary this fall. To mark the occasion, a get-together for present and past staff and customers will be held Sept. 24 during Homecoming Weekend. It will be held at the Brass Taps after the football game. To reserve a spot, call Woody at Ext. 3904.

Campaign kickoff

The University community is invited to attend a western hoodwink kickoff to the Guelph and Well-

ington 1994 United Way campaign Sept. 22 from 5 to 8 p.m. at Riverside Park. Events include line dancing and a western auction. Cost is \$6 per person or \$20 for a family of four.

A day with art

Famous and not-so-famous artists are putting their artwork on the auction block in support of the AIDS Committee of Guelph and Wellington County's A Day with Art. The auction is Sept. 24 at the Arboretum Centre. Viewing is from 6:30 p.m.; the auction begins at 8 p.m.

Go with the flow

U of G's flow cytometer users' group will meet Sept. 26 at 4:30 p.m. in Room 141 of the Animal Science and Nutrition Building. Topics will include DNA analysis by flow cytometry, formation of a protocols library and troubleshooting.

Learn to relax

The Stress Management and High Performance Clinic will offer noon-hour, afternoon and evening programs this fall. Classes meet twice a week. Cost of the 12-session program is \$40. Booster classes are also available. Classes begin Sept. 27 and Oct. 18. For more information, contact the clinic at Ext. 4155 or the Connection Desk on Level 3 of the University Centre.

On stage

The Arboretum is staging a fundraising dinner theatre production Oct. 1. The evening will feature a three-course meal and the Theatre Downstairs production of *The Marriage-Go-Round*. Tickets are \$100 per person. An income tax receipt of \$50 will be issued. Call Joanne Lockie at Ext. 4110 to reserve a table.

JOBS

As of *At Guelph* deadline Sept. 9, the following opportunities were available for on-campus employees only:

Assistant Manager, Bookstore, Hospitality/Retail Services. Salary range: \$24,854 minimum, \$29,203 normal hiring limit, \$31,067 midpoint.

Secretary, Hospitality/Retail Services. Salary range: \$13.17 minimum, \$16.46 job rate, \$19.76 maximum.

Assistant Director, Management Information Systems, Hospitality/Retail Services. Salary range: \$39,703 minimum, \$46,651 nor-

mal hiring limit, \$49,629 midpoint.

Secretary, Department of English, regular part-time, three days a week. Salary range: \$12.60 to \$14.07 an hour.

Communications Assistant, University Communications, maternity leave from about Dec. 16/94 to Aug. 1/95. Salary range: \$11.90 to \$13.28 an hour.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, visit Client Services on Level 5 of the University Centre or call 836-4900.

CLASSIFIEDS

FOR SALE

1981 Camaro, torch red with tan interior, 267 engine, automatic, good condition, some extra parts. Steve, 766-9854.

1981 Volvo, red, standard; new wedding dress, never tailored or altered in any way, size 7/8, Jason or Tiffany, leave message at 824-0734.

1986 Mazda 323 LX, white, three-door hatchback, 120,000 km, good condition, 822-5187 after 6 p.m. or weak ends.

Canon FAX-245, excellent condition, Ext. 4289.

Daybed chesterfield; eight-by-12-foot carpet, industrial strength, tree; bicycle, needs tune-up and tires, 836-9551.

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Computerized Stairmaster, mint condition, Lynn, 767-0448 evenings.

Bushnell Ensign binoculars, Instaflex 8x40, Ext. 8176 or 821-5023.

Triumph battery-operated mobility cart, seldom used, new condition, Gary, Ext. 4881 or 653-9433.

Full-size fridge and stove, olive green, good condition; Kenmore portable dishwasher, 821-0245.

Large house plants, flowering cleaner tree and orchid cactus, 824-9126 after 5 p.m.

Computer, 286 color with two 5 1/2-inch drives, software; brown loveseat; perennial Sweet Bergamot, available in red and violet, Kris, 822-0289.

Garden gazing globe with cement pedestal; cement Japanese lantern; six-piece wooden lawn furniture set; basketball hoop with net and backboard; bookshelves, 836-1231.

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Two-bedroom condo in Florida, two baths, golf course view, fully equipped, photos available, long- or short-term rentals, available September to December, Ken, Ext. 2187 or 822-7911.

Three-bedroom, two-storey townhouse, minutes from University on private lot, spacious living room, two bathrooms, rec room, gas furnace, fridge, stove, built-in dishwasher, \$900 a month plus utilities, 836-9869 after 5 p.m.

WANTED

Used filing cabinets, Ext. 8333.

Cheap desks, preferably small, Anne, Ext. 6171.

Classifieds is a free service available to staff, faculty, students and alumni of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham on Level 4 of the University Centre. For more information, call Ext. 6581.

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CALENDAR

THURSDAY, SEPT. 15

Landscape Architecture Lecture - "Australian Landscape Image and Painting" is the topic of Ken Taylor of the University of Canberra from 7 to 10 p.m. in MacKinnon 116.

Population Medicine Seminar - Prof. Peter Physick-Sheard asks: "Do Racehorses 'Produce' or 'Perform' and Does It Really Matter?" at 4 p.m. in OVC Learning Centre 1713.

SUNDAY, SEPT. 18

Arboretum - Guided nature walks begin for another season. This week's walk focuses on wildflowers in the Arboretum's meadows and leaves from the nature centre at 2 p.m.

TUESDAY, SEPT. 20

Sociology and Anthropology Seminar - Prof. Lynn McDonald discusses "The Early Origins of Quantitative Research Methods in Sociology: Quetelet, Marx, Nightingale, Weber and the Webbs" at noon in MacKinnon 904.

College Women's Club - The club will hold a membership tea at the Arboretum Centre from 2 to 4 p.m. and 8 to 9 p.m. Membership fee is \$10.

Murray Lecture - David McCamus, retired CEO of Xerox Canada, is this year's Ken Murray lecturer. He'll speak on "Inventing our Future: A Vision of Prosperity" at 8 p.m. in OVC 1714.

WEDNESDAY, SEPT. 21

Third Age Learning - This lecture series for retirees looks at "Demystifying Disease" with Prof. Ian Barker, Pathology, at 10 a.m. and "Anthropology and Contemporary Social Issues" with Prof. Frans Schryer, Sociology and Anthropology, at 1:30 p.m. Lectures are at the Arboretum Centre.

Gerontology Lecture - Gillis Samuelsson of the Gerontology Research Centre in Lund, Sweden, discusses "Quality in Home Help Services" at noon in UC 441.

THURSDAY, SEPT. 22

Landscape Architecture Lecture - Jane Durante of Vancouver offers "Western Views" from 7 to 10 p.m. in MacKinnon 116.

WORSHIP

Roman Catholic Eucharist is celebrated Sundays at 10:10 a.m. in Thombrough 100.

The Open Door Church (Anglican/United/Presbyterian) runs Sundays at 7 p.m. in UC 533.

Care of the Soul, a Wednesday session of prayer and music, begins at 12:10 p.m. in UC 533.

Womanspirit, a spirituality circle open to all women, runs Fridays at 12:10 p.m. in UC 533.

Multifaith calendar

Yom Kippur, the holiest day of the Jewish year, begins Sept. 14 at sundown. Sukkot, the Feast of Booths, runs Sept. 20 to 27. Sept. 28 is Simhat Torah, marking the completion and new beginning of

the annual cycle of the reading of the Torah in the synagogue.

In Jainism, the Digambara sect marks the end of Paryushana-parva Sept. 18 with Ananta-Chaturdasi (the Festival of the 10 Virtues). Sept. 19 is Ksamavani, a day of universal forgiveness.

In Hinduism, Sept. 23 is Ganesh Chaturthi, a celebration of the birthday of Ga-nesha, one of the major Hindu deities.

Sept. 23 is also Fall Ohigon, when Jodo Shinshu Buddhists celebrate the September equinox.

Sept. 27 is Mashiyyat, the 11th month of the Baha'i year.

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Agrologist to speak

U of G's first agrologist-in-residence, Bill Bearss, will give a lecture on "The Science and Art of Professionalism" Oct. 5 at 7 p.m. (For location, call Ext. 3770.)

Bearss, who will be on campus Oct. 3 to 7, is manager of the Brampton Agricultural Centre for the Royal Bank. He graduated from OAC with an M.Sc. in 1974 and is a director of the OAC Alumni Association.

The agrologist-in-residence is sponsored by OAC and the Ontario Institute of Agrologists. □

Canadian Criss Cross

by Walter D. Feener



ACROSS

1. Pertaining to the Pope
6. Essential
11. Mirror reflections
13. Concluding part
14. Most sound
15. School assignment
16. Pan Alley
17. Eggs
19. Shoshonean Indians
20. Religious denomination
21. Boring tools
23. Heart beat
25. Waistband
26. Surface measure
27. Trunk of a statue
29. Handle clumsily
32. Ball and rope weapon
32. Bit holder
35. Group of three
38. Formerly
39. Plaintiff
40. Churchill's trademark sign
41. Playing card
42. Claim
44. War fleet
47. Make outcries
48. Emitted vapor

49. Provided with cross-references
50. Cover a wound

DOWN

1. ___ aller (last resort)
2. Greenhorn
3. Flower cluster
4. Middlemen
5. ___ Cayes, Haiti
6. Strive for superiority
7. Offending remark
8. Individual preference
9. Drug plants
10. Optical glass
12. Arrange compactly
13. Tongues of fire
18. Quiver
20. Belgian resort town
22. Splash of color
24. British boys' school
28. Paladin of Chalemagne's court
29. Flapjack
30. Agrees to
31. Little
32. Oared galley
34. Gypsy
35. Silk netting
36. Electrical device
37. Twelve months
39. Loose jacket
43. Supreme Being
45. Primary color
46. Public notices

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CCS offers free seminars

Computing and Communications Services is offering free seminars on information technology topics this semester for members of the University community. The series is presented in collaboration with Teaching Support Services and the U of G Library.

Most seminars last about two hours and are held in rooms 203/204 of CCS, located just off Trent Lane. Register by calling Ext. 3713 or visiting CCS weekdays between 9 a.m. and 4 p.m., starting Sept. 19. For seminar descriptions, drop by CCS during working hours beginning Sept. 16 or see the Sept. 13 issue of the *Ontario*. All seminars are hands-on, except where indicated by an asterisk.

++ active central computer ID required

+++ central ID and Unix fundamentals seminar (or equivalent experience) required.

Title	Date	Time	Code
NEW Intro to Unix Fundamentals (two parts)	Sept. 27/28 Oct. 3 & 4 Oct. 5 & 6 Oct. 12 & 13 Oct. 31,	6 p.m. 10 a.m. 2 p.m. 6 p.m. 8 a.m.	unix01 unix02 unix03 unix04 cprog1
"C" Programming Language (five parts) +++	Nov. 1,2,3,4		
Intro to SAS (four parts) +++	Oct. 11,12,13,14 Oct. 17 & 18	10 a.m. 6 p.m. 10 a.m.	sas001 sas002 spss01
Intro to SPSS (two parts) +++	Oct. 21	10 a.m.	wind01
Intro to Windows	Oct. 25	2 p.m.	wind02
NEW Intermediate Windows	Nov. 7	2 p.m.	wind11
Intro to DOS & Hard Disks	Nov. 14 Sept. 26 Sept. 28 Sept. 30	10 a.m. 10 a.m. 2 p.m. 10 a.m.	wind12 doshd1 doshd2 doshd3
NEW Intermediate Quattro Pro	Oct. 11 Oct. 24	2 p.m. 10 a.m.	qpro11 qpro12
Overview of Central Computing Services*	Sept. 27	10 a.m.	comp01
Intro to Pegasus Mail	Sept. 29	2 p.m.	comp02
NEW Intermediate Pegasus Mail	Sept. 26 Sept. 30	2 p.m. 2 p.m.	pmail1 pmail2
Intro to Fortran (five parts) +++	Oct. 12 Oct. 20 Oct. 31 & Nov. 1,2,3,4	2 p.m. 10 a.m. 10:15 a.m.	fort01
NEW WordPerfect Presentations (Intro)	Oct. 19	10 a.m.	pres01
NEW Powerpoint (Intro)	Oct. 24 Nov. 14 Nov. 15	2 p.m. 2 p.m. 10 a.m.	pres02 powp01 powp02
Intro to E-Mail ++	Sept. 27 Sept. 29 Oct. 3 Oct. 7	2 p.m. 6 p.m. 2 p.m. 10 a.m.	email1 email2 email3 email4
NEW Navigating the Internet (Intermediate, three parts)++	Oct. 17 & Oct. 18/19 Oct. 24 & Oct. 25/26 Oct. 27 & Oct. 28 & Oct. 31 Nov. 1 & Nov. 2/3 Nov. 7 & Nov. 8/10	2 p.m. (one hour) 2 p.m. 6 p.m. (one hour) 6 p.m. 10 a.m. (one hour) 10 a.m. 2 p.m. 2 p.m. (one hour) 2 p.m. 10 a.m. (one hour) 10 a.m.	navi01 navi02 navi03 navi04 navi05
CoSy Computer Conferencing (Intro)++	Oct. 4	2 p.m.	cosy01
Intro to Computer Terminology *	Oct. 13	2 p.m.	cosy02
Accessing Library & Off-Site Databases (Intro)	Oct. 6 Oct. 25	2 p.m. 10 a.m.	terms1 libdb1

New this semester from CCS are "Absolute Beginner Labs" running from 4:30 to 5:45 p.m.

Title	Date	Code
WordPerfect Part 1	Sept. 26 Sept. 28	ABWP01 ABWP02
"My First 45 Minutes on a Computer"	Sept. 27 Sept. 29	ABCOM1 ABCOM2
Quattro Pro	Oct. 4 Oct. 3 Oct. 5 Oct. 6	ABCOM3 ABQPR1 ABQPR2 ABQPR3
WordPerfect Part 2	Oct. 12 Oct. 13 Oct. 17	ABWP11 ABWP12 ABWP13
MS/Word Windows	Oct. 18 Oct. 19 Oct. 20	ABWRD1 ABWRD2 ABWRD3
Excel	Oct. 24 Oct. 25 Oct. 26	ABEXL1 ABEXL2 ABEXL3

Midway, Blue Rodeo to revitalize Homecoming

A midway, face painting and a performance by Blue Rodeo are some of the activities planned for a revitalized Homecoming Weekend Sept. 23 and 24.

Many new events are planned this year. A midway with six carnival rides for all ages and games of chance will run on campus Sept. 23 from 7 to 11 p.m. and Sept. 24 from 10 a.m. to 11 p.m. The carnival will be located in the parking lot next to the twin-pad arena.

On Sept. 24 from 9 a.m. to 5 p.m., a Gryphon Expo will be held in the area between the Athletics Centre and the arena. It will feature a batting cage; dunk tank; kids' zone with face painting, balloons and clowns; rummage sale (with proceeds to the United Way); marketplace; licensed Oktoberfest celebration; and displays. As part of the Expo, a pancake cook-off will be held at 9:30 a.m.; rain location is the main gym.

The Homecoming football game Sept. 24 at 2 p.m. at Alumni Stadium pits the Gryphons against the Laurier Golden Hawks. The game will also feature the official kickoff of U of G's 1994 United Way campaign. That evening at 8 p.m., Blue Rodeo will perform in the gold arena. For tickets, call the box office at Ext. 3940.

Homecoming festivities start Sept. 21 with a noon-hour pep



rally and barbecue on Branson Plaza. On Sept. 22, all new students are invited to a barbecue at Alumni House. On Sept. 23, the Student Federation of OAC will hold a benefit dance in the gold arena to raise money for agricultural programs.

Other weekend events include class reunions, a sub-eating contest, sports events and open houses. A Sunday afternoon walk at the Arboretum leaves from the nature centre at 2 p.m.

For more information, call the Homecoming hotline at 519-824-4120, Ext. 6655. □

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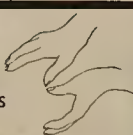
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FIRST GLANCE

China honors crop scientist

Retired crop science professor Ed Gamble will receive China's Friendship Award, the highest honor the country bestows on foreigners, Sept. 28 in the Great Hall in Beijing. The award recognizes contributions to China's social development and economic construction. Gamble worked on improving wheat yield in Heilongjiang from 1990 to 1992.

Student meeting set

Students are invited to an open meeting Sept. 27 to respond to the Strategic-Planning Commission's reports on "Framing the Choices," course/credit for graduation and the semester system, as well as reports from the Academic-Planning Committee. The meeting runs from 5 to 7 p.m. in Room 103 of the University Centre. The reports are available at the library reserve desk or on GRIF.

On stage

The Arboretum will raise the curtain Oct. 1 on a fund-raising dinner theatre production. The gala evening features a three-course meal and the Theatre Downstairs production of *The Marriage-Go-Round*. Tickets are \$100, with a tax receipt issued for \$50. Call Ext. 4110 to reserve a table.

Inside:

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United Way campaign shoots for \$170,000 . . . 3

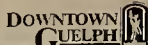
AIDS researcher gives Schofield Lecture . . . 5

Cat got your goat? . . . 8

Thought for the week

*Nature is often hidden,
sometimes overcome,
seldom extinguished.*

Francis Bacon



It's in the can!

Andrew "Hoover" Daw, athletics director for Mills Hall, front, takes a break from loading

thousands of cans collected through the hall's fall can drive. At back is hall president

Bob Dehu, who predicts the effort will raise about \$600 for the Big Brothers Association.

Photo by Maurice Oishi, University Communications

OCUA proposals 'a threat' to universities

by Sandra Webster
University Communications

U of G is preparing a terse response to the Ontario Council on University Affairs (OCUA) discussion paper on a review of the formula used to fund Ontario universities.

The proposals contained in the paper are viewed by universities across the province as a way for the government of the day to centrally direct the academic mix and focus of postsecondary educational institutions by determining the basis for how funds are directed to them for teaching and research.

Guelph's response will be presented to OCUA at a campus hearing Oct. 13.

The discussion paper, "Sustaining Quality in Changing Times: Funding Ontario Universities," is included with most copies of *At Guelph* distributed on campus. Other readers can pick up a copy at the *At Guelph* distribution boxes in the University Centre or

from University Communications on Level 4 of the UC.

The University community is encouraged to read it and respond to OCUA by Sept. 26 and to attend the campus hearing, which will be held in the Eccles Centre. Time is to be announced.

President Mordechai Rozanski met with the Senate Committee on University Planning and Consultative Forum Sept. 13 to gather support for presentations by the various bargaining groups and associations at the hearing. A second joint meeting is planned for Sept. 21 to consider the University's response to the council. Rozanski was also to address Senate Sept. 20 on the issue and he plans to brief Board of Governors Sept. 29.

The OCUA review, called for last November by Minister of Education and Training Dave Cooke, is examining how the government allocates almost \$1.8 billion in annual operating grants to Ontario universities and colleges.

The report says universities are facing many pressures:

- Demand for undergraduate student places is expected to increase by 19 per cent by the end of the century.
- The student population, which is becoming increasingly diverse as underrepresented groups and older students pursue postsecondary education, will require universities to be more flexible and innovative in course delivery and scheduling.
- 1993/94 marked the first time that the actual dollar amount of provincial operating grants provided to universities declined — dropping by 6.3 per cent — and that trend appears to be continuing.
- On a per-student basis, government grants have fallen by more than 23 per cent since 1978/79.
- Federal commitments to provincial health and postsecondary sectors through Established Programs Financing

have been scaled back for more than a decade. The total loss to these sectors since 1982/83 is estimated at \$18 billion, and additional cuts are predicted in light of Ottawa's budgetary problems.

OCUA says universities should:

- implement a new funding system to encourage accessibility, adaptation and restructuring;
 - put more emphasis on teaching by reviewing the balance among teaching, research and community service;
 - increase accessibility;
 - ease student transfers among universities and between colleges and universities; and
 - enhance co-operation, rationalizing and sharing resources to increase quality and accessibility.
- Guelph agrees with the council's summary of the changing environment in which universities operate and can expect to operate in the future.

See OCUA on page 4

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At Guelph welcomes contributions from the University community, including letters to the editor, opinion pieces, publications and news about faculty, staff and student activities. Deadline is Wednesday at noon unless otherwise specified. Articles may be reprinted with permission of the executive editor.

At Guelph headlines top stories and coming events can also be accessed on GRIFF.

Offices: University Communications, Level 4, University Centre, University of Guelph, Guelph, Ontario N1G 2W1. Telephone: 519-824-4120, Fax: 519-824-7962. Office hours: 8:30 a.m. to 4:45 p.m.

COMMENTARY

Don't destroy a major attraction and strength

by Keith Ronald
and Roy Anderson

U of G's seven colleges were established after four years of deliberation by the founders of the University. The structure proposed recognized the traditions and strengths of the founding colleges as well as the balance and energy provided by the newly formed colleges of Arts, Biological Sciences, Physical Science and Social Science.

Our founders built well. The structure handed down to us has resulted in a unique and academically balanced university that has succeeded in attracting good-quality students into a variety of programs characterized by excellent teaching and high standards.

Two of the newer colleges — CBS and CSS — have been especially successful in attracting undergraduate students. In fact, most of the undergrads are associated with these colleges.

Recommendations now before us would fundamentally change the structure of the University,

particularly in the elimination of two successful colleges and the dismemberment of successful departments.

Committees struck to examine structure sniff about diligently to find things to change. It is the mindset of these beasts. There is, therefore, some danger that changes will be proposed because we have a "structure that was established a quarter of a century ago" and "if we make no changes at all to departments or colleges we will have failed" (quotes from Profs. Bev Kay and Constance Rooke in their apology to the academic community).

Perhaps we should remind ourselves that 25 years is rather minor in the life of an academic institution and that change made simply for the sake of change can have lasting detrimental effects on our ability to attract good students and get on with the job of teaching and research.

We were surprised to see the proposal to dismember CBS. This college was established to provide a centre for teaching and research in basic biology and to provide basic teaching in the life sciences to all colleges. At the same time, CBS has important and attractive undergraduate and graduate programs covering a wide range of modern biology from molecular biology to systematics.

The college and its undergraduate programs have been remarkably successful in attracting high-quality students. In fact, about 80 per cent of all B.Sc. graduates are from CBS.

This college's mandate includes all aspects of teaching and research in botany, human biology, human kinetics, nutrition, microbiology, molecular biology, nutritional sciences, genetics and ecology. In addition, a number of students have chosen less specialized biological pathways.

The college has also provided outstanding service to other colleges. It is curious why such recruiting and academic strengths should be considered for dismemberment.

The Department of Zoology with its four programs, all well subscribed, is the central animal group on campus; three of its options are unique in Ontario, two in Canada. It graduates about 50 per cent of all B.Sc. students. Why would one consider splitting up such academic strength?

All its programs, like many in other CBS departments, are strongly eco-environmentally based, which should suggest that there is no need for a separate

college of environment. Perhaps a name change to the College of Biological and Environmental Science would suffice.

Entomologists who once were part of CBS (Department of Zoology and Entomology) should now consider returning to their roots in the zoological sciences.

Biochemistry and biophysics are not attracting students in their current position in the College of Physical and Engineering Science. Biochemistry might well transfer to CBS, as could biophysics. There, they would benefit from being part of a more vibrant environment with many students interested in the study of biology.

Food science is part of nutritional sciences, and the Department of Nutritional Sciences and the applied human nutrition program in FACS should be consolidated with the food science program (really food technology), building on the basic sciences found in the CBS and FACS departments. The administrative structure might be considered a centre, with nutritional sciences and human nutrition being placed in CBS and food technology elsewhere.

A more devastating recommendation is that there be a breakup of CPES and CBS and establishment of a College of Science and Engineering, a boring, unoriginal and thoroughly uninspiring proposal.

This would obviously be helpful for the image of physical sciences, which would benefit from the popularity of the life sciences at Guelph. At the same time, however, it would effectively obscure the unique attraction of the life sciences, which are a striking feature of this university, unlike any other in Ontario.

Certain elements on campus find this hard to swallow, but it's true. And we should take strength from and resolutely oppose those who would deny U of G the advantage of having a unique science mandate that sets it apart from all other

universities in Canada. It is simply not in the best interests of the University to destroy one of its major attractions and strengths.

Considering other colleges, we are impressed that little change is proposed in the College of Arts. Might we suggest that the departments of Drama and English be merged? We question whether political studies and history make suitable bedfellows. Perhaps the College of Arts should consider its structure independently.

Like CBS, CSS has been very successful in recruiting good students, and it would not serve any particular purpose to break it up as suggested. Obviously, a few changes would strengthen the college, but these could be done by an internal review.

In short, we are concerned that some of the proposals made by the committee are retrograde and would seriously damage Guelph's future standing as a unique, modern, forward-looking university noted for the variety and excellence of its academic programs and research.

Finally, when considering the several hundred staff and faculty positions that are being reduced, one should consider that this university was set up to handle 18,000 students, and we now have about 13,000. It is therefore a must that we downsize the overall administration by 20 to 30 senior positions. This would cut costs, release space and allow chairs to assume their rightful place as more autonomous leaders in the academic milieu.

We suggest these and other matters should be considered by the committee as a whole.

Retired zoology professor Keith Ronald is a former dean of CBS, former director of the Arboretum and a University fellow. University professor emeritus Roy Anderson is a former chair of the Department of Zoology.

LETTERS

Thanks for
the memories

I would like to thank members of the University community who contributed to my monetary retirement gift. I'd especially like to thank my former co-workers at the paintshop who took Pauline and me out to dinner with their spouses. I have many happy memories at the University.

I continue to struggle recuperating from brain surgery and cancer, but I hope everyone will feel free to drop in and see me.

Alf Thompson

B of G names
acting secretary

Hearing officer Andrya Schulte will be acting secretary to Board of Governors until April 30, 1995, while Betsy Allan is on maternity leave.

A former B of G secretary, Schulte will continue her part-time responsibilities as hearing officer in Student Affairs. She will be located in the Secretariat's Office on Level 4 of the University Centre, Ext. 3438. □

Nominations sought
for honorary degrees

The Senate executive committee invites suggestions or nominations for honorary degree recipients from members of Senate, faculty, students, alumni and administrative personnel.

Honorary degrees recognize outstanding contributions in the arts, humanities and sciences or

honor people outstanding in professional or public life. Nomination deadline is Oct. 31.

Nominations should go through a college approval process (usually the college tenure and promotion committee).

For more information, call the Seate Office at Ext. 6758. □

UNIVERSITY
OF GUELPH

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Welcome to Guelph

President Mordechai Rozanski chats with first-year students Jennifer Benedict, left, and Kerri Metzloff, both of Kitchener, at one of three president's luncheons held last week. The luncheons are a chance for incoming students to meet each other, faculty, administrators and program counsellors.

Photo by Maurice Olsh, University Communications

New aquatic sciences facility draws \$50,000

The E.W. Bickle Foundation and Imperial Tobacco, a division of Imasco Limited, have each pledged \$25,000 to U of G's aquatic sciences facility.

The pledges are the first gifts received by the University since a fund-raising campaign was officially launched in June by the Department of Development. Guelph hopes to raise \$2.3 million from corporations, foundations and individuals with an interest in aquatics and the environment.

The \$6-million aquatic sciences facility will co-ordinate teaching and research space for aquatic sciences on campus. It will contain more than 30,000 square feet for its two components — Aqualab

and the Institute of Ichthyology. The facility will allow researchers to work together in one location to address a broad range of issues related to managing Canada's fresh-water and marine resources. Phase 1 of the construction will begin this fall.

To date, \$3.7 million has been raised from the public and private sectors for the project. This consists of a federal and provincial grant of \$1.86 million, a Natural Sciences and Engineering Research Council equipment grant of \$1 million, a \$500,000 pledge from Rolf C. Hagen Inc. and a \$340,000 pledge from ichthyologist and author Herbert Axelrod. □

Access Awareness Week to boost understanding of disability issues

The Centre for Students with Disabilities (CSD) is marking Access Awareness Week Sept. 26 to Oct. 1 with a variety of events aimed at promoting awareness of disability issues and the advances that have been made to provide equal opportunities.

Events kick off Sept. 27 with a barbecue and demonstration of accessible cars beginning at 11 a.m. on Branon Plaza. Proceeds will go to spinal cord research.

On Sept. 28 and 29, Disability Today Caravan '94 will be in the UC courtyard with interactive displays of technology available to people with disabilities.

The week wraps up Oct. 1 with "Walk and Roll," a fun run for charity in the Arboretum. Organizers encourage clubs, residences and other associations to bring groups and challenge each other to run, walk, roll, skate, crawl, ride in a bathtub or use any other creative mode of transportation. The run begins at 11 a.m.

Donations from run participants will go to the Recreation Equality on Campus Club. Anyone donating \$10 or more will receive a T-shirt. For more information, call Ext. 6208. □

Help someone you know

Campus United Way appeal shoots for \$170,000

by Mary Dickieson
University Communications

Last year in Guelph, a father learned to read, a little boy got breakfast before he went to school, a teenage girl found a friend and a safe place to sleep, and an elderly woman forgot her loneliness when a VON volunteer came to visit.

You might know these people. You certainly know many others whose lives have been touched by one of the 39 United Way agencies in the Guelph area — your neighbor, a friend, a co-worker.

Your contribution to the upcoming United Way campus campaign will surely "help someone you know — more than you know," says Denna Benn, director of Animal-Care Services, who is co-chairing the appeal with Chuck Cunningham, assistant registrar, liaison.

The campus solicitation is part of the Guelph and Wellington campaign, which coined the "someone you know" slogan to stress the fact that donations to the United Way stay in the community, where they benefit thousands of people each year.

The campus campaign committee hopes to raise \$170,000. Cunningham says it's a realistic goal, calculated by campus canvassers who saw their co-workers dig deep last year to surpass the 1993 goal by 10 per cent. More than \$155,000 was raised.

U of G donations accounted for 15 per cent of the \$1.6 million raised last year by the Guelph and Wellington United Way. The University is its largest single source of revenue.

The campus campaign kicks off Sept. 24 at the Homecoming football game, where president Mordechai Rozanski will hold the ball for Central Student Association (CSA) spokesperson Lesley Isaacs. The ceremony will also involve members of the local and campus United Way committees and representatives from Athletics, the U of G Alumni Association, retirees and the city.

Student volunteers will ask Gryphon fans to donate \$2 in exchange for a draw ticket that could win them a sweatshirt or a grand prize of dinner for two and two tickets to the Nov. 19 Vanier Cup game at SkyDome. The draw will be made at half-time.

U of G's student United Way campaign, led by the CSA and Interhall Council, has set a goal of \$7,000. Benn says students are grassroots supporters of the United Way.



"You might be surprised to read the résumé of students who serve as volunteers with hospices, women's crisis centres, telephone hotlines and programs for children with disabilities," she says.

Benn herself began to contribute to the United Way when she was an OVC student. Both she and Cunningham say their current United Way efforts are made easier by the 200 campus volunteer canvassers and committee members.

These volunteers will deliver pledge forms next week. Benn and Cunningham remind everyone that regular payroll deductions can be a painless way to contribute to the United Way. For the first time this year, retirees will be able to contribute through pension cheque deductions. And the co-chairs note that it's an easy switch from payroll to pension deductions for those planning retirement in the next year.

Many special events are planned for the nine-week campus campaign — a noon-hour barbecue on Branon Plaza Oct. 3, agency displays in the University Centre courtyard Oct. 4, a student-sponsored Casino Night on Halloween in Peter Clark Hall and casual dress day Nov. 18.

Individual departments and employee groups will also hold special fund-raising events. Some have already begun; Animal-Care Services held a barbecue in May and a pancake breakfast last week. Check future issues of *At Guelph* for details of upcoming events or call the United Way hotline at Ext. 8800. □

The art of music

TSO concertmaster to kick off art centre concert series

The fourth annual concert series sponsored by the Macdonald Stewart Art Centre and the Department of Music will be a feast for both the eyes and ears.

"We're putting special emphasis on the integration of music and art," says concert manager Dudley Gibbs. "For the listener, it's both a visual and an audio experience."

The lineup for the three-concert series takes the event to a new level, says Gibbs. The program kicks off Oct. 16 with renowned violinist Jacques Israelievitch, concertmaster of the Toronto Symphony Orchestra. He will perform at 3 p.m. amid a gallery exhibition celebrating the art centre's 15th anniversary.

Prof. Mary Cyr, chair of the Department of Music, notes that in addition to the ambience it provides, the centre gallery "probably has the best acoustics in Guelph."

Cyr says Israelievitch was in-



Violinist Jacques Israelievitch performs Oct. 16.

vited to Guelph at the suggestion of president Mordechai Rozanski, an acquaintance of the violinist's. Israelievitch had visited with the president on campus and expressed an interest in performing at the University.

"I'm a great fan of the TSO and of the violin in particular," says Rozanski. "Bringing Jacques to campus enhances our students' ability to appreciate the role of music and artistic performance as part of a well-rounded education."

The concert series also features

the return of former music faculty member Leslie Kinton. The pianist performs with cellist Brian Epperson Feb. 4 at 8 p.m. amid the exhibit "Michael Snow: Walking Women." Music professor Howard Spring and the Spring Time Quartet jazz things up March 23 at 8 p.m. The gallery will feature works from the Riverside Print Shop.

Tickets for the entire series are \$24 general, \$18 for students and seniors. Individual concerts are \$10 and \$8. Tickets are available through the Department of Music at Ext. 3127. □

OCUA funding model would 'undermine academic integrity'

Continued from page 1

Many of the non-funding issues raised in OCUA's report are now under study by task forces and committees of U of G's Strategic Planning Commission (SPC). This group is examining what Guelph as a university should do, what it should do differently and how it can do it in the most effective and efficient way. SPC will present its report to the president in early 1995.

Guelph has also addressed the issue of flexibility in deploying resources. The voluntary special early retirement program is under way, and by April 30, 1996, 247 employees — 71 of them faculty (10 per cent of the complement) — will leave the University.

Model unacceptable

At the heart of the debate is one of three funding models (Model C) suggested by OCUA. Council claims that Ontario universities are autonomous institutions that have few external limits on how they spend most of their share of provincial operating funds. In contrast, many international jurisdictions facing the same pressures as universities are moving toward a more publicly accountable system. A "contract" or "purchase of service" model would better reflect public expectations of universities, says OCUA.

Under this new system, universities would enter into contracts with government for specific services (such as teaching and research) and levels of performance in exchange for public funding.

Guelph concurs with its sister institutions that this model would

change the shape of universities as they are known today. "It is simply unacceptable," says Rozanski. He believes universities need a funding system that would prevent them from becoming an arm of government and reflecting the views of whatever party happened to be in power at the time.

"Although we must be responsive to social needs and our funders' concerns, if this model is implemented, universities would be servile appendages of a government that would dictate public-policy goals for the entire university system," he says. Universities would be managed through a central co-ordinating body that would be worse than a "University of Ontario."

The president believes this kind of change would "undermine universities' academic integrity and quality, let alone their independence and ability to carry out sound fiscal management and long-term planning, particularly in a community with a collegially based system of governance."

Rozanski urges the University community to examine the rhetoric of the paper closely.

"OCUA claims it is a neutral document," he says, "but if these proposals are implemented, Ontario's cash-strapped universities would become the cat's paw of the government of the day."

Academic vice-president Jack MacDonald describes the funding model as a "dangerous threat to the very autonomy of our universities." It begs basic questions of the value placed on the university's role as a source and disseminator of new knowledge and as an

independent critic of society and government, he says.

More than autonomy is at stake, adds MacDonald. It's an issue of a collegial governance system with an accountable governing board and a senate being responsible for setting a distinct academic mission designed to serve society's long-term and short-term needs.

Guelph also disputes the technical and philosophical nature of a funding model that would direct funding towards teaching and away from research and community service. It presumes that teaching, research and public service are separable, identifiable activities that could be funded separately, says MacDonald.

Functions overlap

"A university is a synergistic organization where research and teaching functions overlap," he says.

MacDonald notes that the report shows ignorance of the nature and function of undergraduate and graduate education in the university setting. The OCUA report rejects the notion that teaching and research are closely related, stating that "studies suggest that research and undergraduate teaching are independent or perhaps even conflicting activities."

Guelph disagrees with OCUA on this essential issue, says MacDonald. "U of G is a research-intensive learner-centred university, and our experience convinces us that the most successful undergraduate and graduate experience occurs in institutions that have a vigorous research climate. The link between research and learning is explicit — one informs the other and each benefits from the interaction."

Guelph also thinks OCUA has downplayed the importance of research in the university setting and the role of research in world competitiveness. Rozanski cites a recent World Economic Forum report that says Canada ranks 19th overall in science and technology and 18th in research spending.

Bemoans research

"The OCUA report bemoans that we are spending too much time on research at the very time our global competitiveness is under attack," he says.

Twenty-six per cent of Canada's research is being done at universities, he says, and it is the basic research done by universities in the 1920s that is driving 25 per

cent of the world economy today.

Rozanski also points to the importance of applied research. Guelph's research contract with the Ontario Ministry of Agriculture, Food and Rural Affairs has contributed advancements in human and animal health, food production and the environment. U of G research in the social sciences and creative and scholarly work in the arts have also contributed to the betterment of society and enriched the country's culture, he says.

"In terms of our contribution to society and in terms of world competitiveness, we cannot abandon research, scholarship and creative work."

Guelph also questions the statistics OCUA uses on faculty teaching workloads. The discussion paper quotes the 1986 study "The Academic Profession in Canada," which says Ontario faculty work an average of 46 hours a week — 49 per cent on teaching, 26 per cent on research, 14 per cent on support and administration and 11 per cent on external community service.

Guelph, however, believes the figures are closer to those found in a 1994 OCUA faculty workload study, "The Structure of Academic Work," which says faculty work between 50 and 60 hours a week during a teaching term and have done so for the past 15 years across many different jurisdictions.

Accessibility concerns

The discussion paper cites accessibility in particular as a goal of any new funding system. But OCUA's contention that the current corridor system does not address accessibility concerns doesn't stand up, says Rozanski.

Ontario universities have accepted more than 29,000 BIUs beyond the midpoint target set for them to receive full funding. U of G is 3,000 BIUs over the midpoint (13 per cent of enrolment), for which it is not paid anything but tuition. This is the second highest intake in the system.

If U of G were fully funded for these additional BIUs, it would receive \$12 million to \$15 million in additional government grants.

Ontario universities have been responsive to accessibility, says Rozanski, and they can continue to be as responsive as Guelph.

Accessibility is responsive to funding, continues the president. "Tuition, for example, is ignored whenever the OCUA discussion

paper addresses sources of funding. Accessibility must be linked to quality considerations, and that requires funding."

OCUA's assessment of the extent of the accessibility problem is also under question by Guelph. The council estimates that the demand for student places will increase by 19 per cent by the year 2000. Guelph argues that this figure is based on enrolments during the recession; students have historically returned to universities when unemployment is high.

Public hearing for city

OCUA will also hold a public hearing for the city of Guelph and surrounding area Oct. 13 in the Eccles Centre. Time is to be announced.

The president is to meet this week with community leaders, alumni and interest groups to encourage them to make presentations on behalf of the University.

Rozanski also plans to speak to the Guelph Chamber of Commerce on the potential impact of the proposals on the local economy. According to a report, "The Economic Impact of the University of Guelph 1992/93," prepared by Mike Kupferschmidt of Institutional Analysis and Planning, U of G's economic impact on Guelph and surrounding area is estimated at almost \$400 million. This is 3.3 times the size of the combined provincial operating and capital grants to the University in 1992/93.

"Clearly, U of G is the major player in the local economy," says Rozanski. "The University, the city and surrounding area are greatly interdependent in generating income and employment, and we each play an essential role in the local economy."

As the largest employer in the city, U of G is fully aware of its responsibility to the local community, he says.

"We also know how much the community gives back to us, and we appreciate the excellent relations we have with city hall, business, labor and community groups. We must now call on them to speak out on behalf of universities."

OCUA will continue public hearings across the province until November. Final advice to Cooke is to be delivered by the end of the year. □

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Prof. Murray Brown, PhD student Robert Gordon and M.Sc. graduate Aston Chipanshi, Land Resource Science, were honored this summer by the Canadian Society of Agrometeorology (CSAM).

Murray received the CSAM Fellowship Award for his contributions to research, extension, teaching and professional service. He was instrumental in bringing about the formation of CSAM in 1986.

Gordon is the first recipient of the Graham Walker Memorial Award, which recognizes excellence in agrometeorology.

Chipanshi was awarded the Campbell Scientific Canada award for best student presentation at the CSAM technical sessions. □

PEOPLE



Prof. Alan Sullivan displays regular raspberries at left. At right is one of the "jumbo" raspberries he has developed.

Photo by Trina Koster, Office of Research

These megaberries have the ripe stuff

by Kerith Waddington
Office of Research

Imagine raspberries the size of strawberries, up to four times bigger than normal. Horticultural science professor Alan Sullivan did. And this summer, he grew them in research plots at the Cambridge Research Station.

Sullivan, an expert in berry breeding, says the high-quality "jumbo" raspberries he's developed could be available commercially in Ontario within a few years. Producers took part in a megaberry field tour this summer. "Tremendous market potential exists for raspberries," says Sullivan. "I believe the unique characteristics of these new strains will ensure industry profitability and popularity with consumers."

The megaberries are the result of a raspberry breeding program initiated in 1986 at Guelph. They combine the best characteristics of hardy Ontario cultivars — the ability to withstand both summer heat and winter cold — with traits from kinder climes (British Co-

lumbia, Scotland and Britain).

"Raspberries from moderate climates have little adaptability, but are much larger in size and tend to yield larger crops of flavorful, disease-resistant fruit with a longer shelf life," says Sullivan.

He and technician Sue Couling crossbred the various strains at Cambridge, aiming for a berry that was large, high-quality and suited to Ontario's climate. And although the breeding lines are still undergoing yield trials, size goals surpassed expectations. Average berries weigh 1.7 to 2.5 grams; the hybrid tips the scales at a hefty 5.5 to 6.5 grams.

Because raspberries are picked by hand, the hybrid's size makes it easier to harvest and less labor-intensive to grow. Sullivan expects that product popularity among farmers will rise and more will choose to grow raspberries. That means industry expansion.

This research was supported by the Ontario Ministry of Agriculture, Food and Rural Affairs and the Ontario Berry Growers Association. □

AIDS is focus of Schofield Lecture

OVC's annual Schofield Lecture will be given this year by world-renowned pathologist Opendra Narayan Oct. 6 at 3 p.m. in War Memorial Hall. Narayan will discuss the contributions of veterinary medicine and animal models to the understanding of AIDS and AIDS dementia.

A 1963 graduate of OVC, Narayan is the Marion Merrell Dow Foundation Distinguished Professor at the University of Kansas Medical Centre and director of the Laboratory of Viral Pathogenesis. He is involved in research related to HIV and AIDS, using animal models — sheep, horses and macaques — to learn more about the mechanisms of the disease.

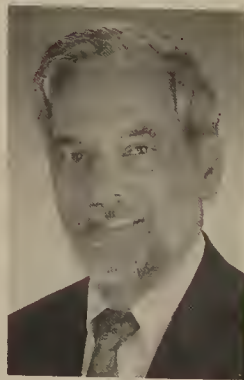
Narayan believes the disease will be prevalent well into the next century, but with advances in drug and immune therapy and the development of vaccines, the future is not as grim as it appeared to be five years ago, he says.

"The HIV virus is the best-adapted pathogen the human race has ever encountered. If HIV were spread in aerosol like chicken pox or measles, the human race wouldn't survive."

After graduating from OVC, Narayan spent two years working at a veterinary practice in Manitoba, then returned to Guelph to complete his master's and PhD degrees. He accepted a position at Johns Hopkins to study viral infections, which led to his studies of the HIV virus.

In 1986, Narayan received the Jacob Javits Award from the National Institutes of Health for studies on viral infections in the central nervous system. He was also named ad hoc consultant for the U.S. National Academy of Medicine on vaccine programs for AIDS. In 1988, he was consultant to the World Health Organization on lentiviruses.

The Schofield Memorial Lec-



Opendra Narayan

ture Series was established in 1970 by OVC in commemoration of Francis Schofield, a renowned veterinary pathologist who taught at the college from 1921 to 1955. □

Software will act as translator for chips

by Margaret Boyd
University Communications

Software that acts as a translator for computer chips in the telecommunications industry could soon be a reality because of research at U of G.

Profs. Tom Wilson and Dilip Banerji, Computing and Information Science, are developing software tools to help designers of computer chips. Working in conjunction with Bell Northern Research Ltd. (BNR), they hope to generate a compiler that takes applications for a chip and automatically produces real code to run on the chip.

In the telecommunications industry, chips are used for a variety

of purposes — from cleaning up the quality of signals to cellular phones. Industry is now manufacturing programmable chips that designers can use in multiple applications. Because the same chip is used for a variety of applications, it's important to be able to generate the code for each application quickly.

Because traditional compilers can't handle such complex chips and the coding process is so error-prone, a new approach had to be used. That's where U of G came in.

If a good compiler were available, the time required to generate code from an application program would be cut down to two weeks from three to four months, says

Wilson.

Using a mathematical model for the chip and translation process, he and Banerji have successfully demonstrated a pilot version of a retargetable compiler to BNR. They are now refining this compiler, which will generate code for a variety of chips.

"We were quite impressed with the results," says Pierre Paulin of BNR. "The Guelph team is laying the groundwork for the transfer of knowledge. We hope to mutually learn valuable lessons."

The benefit to the telecommunications industry will be a reduction in the time to market new services, says Banerji. In this service-oriented industry, beating the competition to the market is advantageous.

This research will allow chips to be "reused," cutting down on the cost of designing new ones, says Wilson.

"The tool we've developed is to be adaptable to different chips, even those not designed yet," he says. □

Agri-food leader sought

The Office of Research seeks nominations and applications from current employees for the position of leader of the agri-food systems program of the University's research and services agreement with the Ontario Ministry of Agriculture, Food and Rural Affairs.

The leader will be responsible for planning and operating all aspects of the agri-food systems program, including the budget. This is a new research thrust intended to provide an integrated assessment of the environmental, economic and social impacts of changes in the agri-food system. Candidates must

have substantial research credibility and experience and a commitment to a systems approach to research. They must also be able to provide strong scientific and administrative leadership and foster team research. The appointment will be about .25 FTE for a three-year renewable term.

Application deadline has been extended from Sept. 22 to 26. Submit applications or nominations, including curriculum vitae and three references, to research vice-president Larry Milligan on Level 4 of the University Centre. □

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OUR COMMUNITY



NOTICES

What's your bid?

Thirty unique boxes by 30 prominent artists will go on the auction block for the Macdonald Stewart Art Centre and the Guelph civic centre. The works will be on display from Sept. 22 to Nov. 5 at the art centre. Final bidding is Nov. 5.

MRI has openings

Openings are still available for researchers or clinicians interested in conducting research using magnetic resonance imaging/magnetic resonance spectroscopy. Anyone interested in a five-day training session beginning Nov. 21 should call Ext. 3181.

The gift of life

The Red Cross will hold a blood donor clinic Sept. 26 from 10 a.m. to 3:15 p.m. in Peter Clark Hall. Donors are reminded that 56 days must have passed since their last donation.

Focus on nutrition

The Enjoy for Life! program offers three short sessions on nutrition beginning Oct. 14. The programs focus on dispelling nutritional myths, sports nutrition and making nutrition work for you. Individual consultations are also available. Call Ext. 3799 for more information.

Learn to relax

The Stress Management and High Performance Clinic will offer noon-hour, afternoon and evening programs this fall. Classes meet

twice a week. Cost of the 12-session program is \$40. Booster classes are also available. Classes begin Sept. 27 and Oct. 18. For more information, contact the clinic at Ext. 4155 or the Connection Desk on Level 3 of the University Centre.

Jazz it up

All instrumentalists are invited to audition for the upcoming Jazz Society season. Rehearsals are Sundays at 6 p.m. in Room 100 of the Thornbrough Building. Bring your instrument, a music stand and a pencil. For information, call Bruce MacColl at 822-7834.

A comedy tonight

The Guelph Little Theatre presents the Willie Russell comedy *Educating Rita* Sept. 22 to 24 and Sept. 29 to Oct. 1. Tickets are \$10 for adults, \$7.50 for seniors on Thursday. Call the box office at 821-0270 for tickets.

Author to speak

The Guelph chapter of the Canadian Federation of University Women invites all female university graduates to its first regular fall meeting Sept. 27 at 7:30 p.m. at the Guelph Steelworker Centre on Dawson Road. Guest speaker is Mar Fowler, author of *In a Gilded Cage* and *From Heiress to Duchess*.

Craft fair

The Ontario Agriculture Museum in Milton holds its Christmas craft

fair Sept. 24 and 25. More than 80 exhibitors will present their wares. The museum is open from 10 a.m. to 5 p.m. daily.

Volunteers needed

The Spirit Valley District Guiding Association seeks volunteers. The First Rockwood Girl Guide Unit needs a guiding assistant and the First Rockwood Pathfinder Unit needs a leader. Call Linda Purton at 856-4445 for information.

Community programs

The YM-YWCA has expanded to include community programs. Scheduled this fall are "Discover Your Self," "Leadership Development Training" and "Life Skills Coaches Training." The Y will also lead public-awareness campaigns for Breast Cancer Awareness Month, starting Sept. 26, and will host a single parents' conference Oct. 15. For registration information, call 824-5150.

Studio tour

The Elora-Fergus studio tour Oct. 1 and 2 gives visitors an opportunity to see the works of 19 local artists. Admission is free. Maps are available from Sun Art, Elora Pottery and Pepe & Maureen Goldsmiths.

Be a big brother

September is Big Brother Month, and the Big Brothers Association of Guelph and Wellington County is celebrating by putting an extra emphasis on recruiting new big brothers in the area. More than 60 boys are currently on the waiting list. For more information, call 824-5154.

Agriculturally speaking

The Royal Agricultural Winter Fair is looking for people between 16 and 24 to speak their mind. Competitors in the fair's speaking contest will give five- to seven-minute talks on agricultural topics. First prize includes \$700 cash. Ap-

plications are due Sept. 30. For more information, call Anne Thompson at 905-873-6811 or Kim DeKlein at 519-473-6480.

Eye on Elora

The Wellington County Museum display "In Love with Elora" looks at the town through the eyes of artists. The retrospective spans 150 years and is on exhibit until Oct. 16. The museum's annual Harvest Home Festival runs Oct. 2 from noon to 4 p.m.

Seed lore

Guelph Museums and the Royal Ontario Museum present an exhibit on the biology and lore of ornamental seeds at the Guelph Civic Museum until Oct. 30. □

Soc/Anthro runs lecture series

The Department of Sociology and Anthropology is reintroducing a seminar series this fall.

Guest speakers include Joachim Voss, a master's graduate of the department who is now director of the sustainable production systems program of the International Development Research Centre. He and Villia Jeffermova of Carleton University will look at "The Current Crisis in Rwanda: Historical and Contemporary Roots" Oct. 11.

Also scheduled is Loblaw's vice-president Paddy Carson, who explains "Why We Need to Rethink the Canadian Food System" Oct. 26.

For details, see the weekly *Ar Guelph* calendar of events or call Dina Carter at Ext. 6526. □

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CALENDAR

THURSDAY, SEPT. 22

Economics/Math & Stats Seminar - Peter Robinson of the London School of Economics considers "Gaussian Semiparametric Estimation of Long-Range Dependence" at 3 p.m. in MacKinnon 034.

Population Medicine Seminar - "Is There Any Hope for Improving Animal Health in Africa?" asks Prof. John McDermott at 4 p.m. in OVC Learning Centre 1713.

Homecoming - A barbecue for new students begins at 5 p.m. at Alumni House.

Macdonald Stewart Art Centre - A gala reception to mark the launch of the centre's 15th-anniversary celebrations runs from 7:30 to 9 p.m. Musical entertainment will be provided by Heads of Black Cabbage. The centre is featuring an anniversary exhibition of major Canadian artists.

FRIDAY, SEPT. 23

Animal Science Seminar - "Generation of Transgenic Mice with Yeast Artificial Chromosomes" is the topic of Gunther Schutz of the German Cancer Research Centre at 11 a.m. in Animal Science 306.

Biomedical Sciences Seminar - Graduate student Jorge Mora-Calvo discusses "Pharmacokinetic Study of Eurofloxacin in Calves" at noon in OVC 1642.

Cycling Club - A 25- to 35-kilometre off-road ride leaves from the UC south doors at 5 p.m.

Homecoming - Carnival rides run from 7 to 11 p.m. next to the arena. The Gryphon Hall of Fame dinner begins at 6:30 p.m. in Peter Clark Hall. Tickets are \$50. To reserve, call Ext. 6133. A benefit dance to support Canadian agriculture begins at 9 p.m. in the gold arena. Cost is \$5.

SATURDAY, SEPT. 26

Homecoming - An alumni swim meet begins at 8:30 a.m. in the gold pool. A Gryphon Expo runs from 9 a.m. to 5 p.m. in front of the Athletics Centre. This includes displays, a dunk tank, kids' zone, a Gryphon hoop challenge and live entertainment. Here you'll also find a rummage sale at 9 a.m., pancake cook-off at 9:30

a.m., a sub-eating contest at 11 a.m., Oktoberfest festival at noon and a pep rally at 1 p.m. An Alumni House open house runs from 10 a.m. to 1 p.m. Carnival rides continue from 10 a.m. to 11 p.m. next to the arena. An inner-tube water polo tournament runs from 11 a.m. to 1 p.m. in the gold pool. A pre-game parade leaves from Johnston Green at 11:30 a.m. The football Gryphons take on Wilfrid Laurier at 2 p.m. at Alumni Stadium. A post-game celebration begins at 5 p.m. in the gold arena.

SUNDAY, SEPT. 25

Cycling Club - A 30-km ride to Arkell/Aberfoyle and a 35- to 55-km off-road ride leave from the UC south doors at 10 a.m.

Arboretum - Learn all about creepy crawly fall insects with naturalist Chris Earley on a walk that leaves from the nature centre at 2 p.m. The annual dedication ceremony in the Wall-Custance Memorial Forest begins at 2:30 p.m.

TUESDAY, SEPT. 27

Physics Seminar - Prof. John Dutcher describes "Brillouin Light Scattering from Thin Polymer Films and Surface Gratings" at 4 p.m. in MacNaughton 113.

French Studies Lecture - Jean Emelina, a humanities professor at the University of Nice in France, discusses "La beauté physique dans le théâtre de Molière" at 7 p.m. in MacKinnon 315. Emelina is touring the four Ontario universities that participate in the Third Year in Nice Program; the others are Wilfrid Laurier, Western and Windsor.

WEDNESDAY, SEPT. 28

International Development Lecture - "Leadership in Development: Lessons Learned in Brazil, Bolivia and Ghana" is the topic of Prof. Doug Pletsch, Rural Extension Studies, at noon in MacKinnon 236.

Biochemistry Seminar - Prof. Robert Lencki, Food Science, asks "When is a Straight Line Not a Straight Line? The Kinetics of Enzyme Inactivation" at 12:10 p.m. in MacNaughton 222.

Cycling Club - A 25-km novice

ride to Downey Road leaves from the UC south doors at 5 p.m.

THURSDAY, SEPT. 29

Concert - The Department of Music's noon-hour concert series kicks off for the fall semester with the Mondrian String Quartet and pianist Neely Bruce performing 20th-century works.

FRIDAY, SEPT. 30

Sociology and Anthropology Seminar - Western University anthropologist Dan Jorgensen looks at "Mining, the State and Landowners in Papua New Guinea" at 11:10 a.m. in MacKinnon 904.

Biomedical Sciences Seminar - Graduate student Hua Hai talks about "Reduction of MNU-Induced Apoptosis in Mouse Hair Follicles in Vivo by TPA and Investigation of p53 Involvement" at noon in OVC 1642.

Cycling Club - A 25- to 35-km off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, OCT. 2

Cycling Club - A 40-km ride to Guelph Lake Extension and a 35- to 45-km off-road ride leave from the UC south doors at 10 a.m.

WORSHIP

Roman Catholic Eucharist is celebrated Sundays at 10:10 a.m. in Thornbrough 100.

The Open Door Church (Anglican/United/Presbyterian) runs Sundays at 7 p.m. in UC 533.

Care of the Soul, a Thursday session of prayer and music, begins at 12:10 p.m. in UC 533.

Womanspirit, a spirituality circle open to all women, runs Fridays at 12:10 p.m. in UC 533.

Nick Kaethler will conduct a musical service called "Exploring Our Hymnary" Sept. 25 at 10:30 a.m. at the Guelph Unitarian Fellowship at Harris Street and York Road. Everyone welcome. ☐

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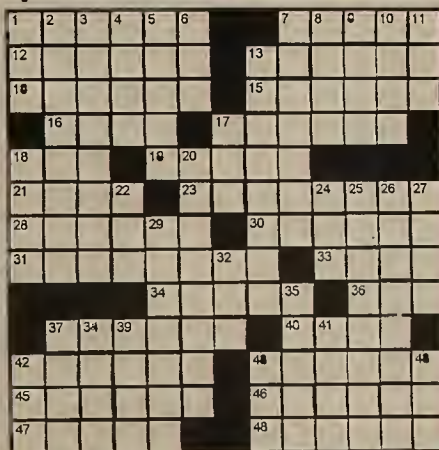
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Canadian Criss Cross by Walter D. Feener



ACROSS

1. Varnish resins
7. Commonplace
12. Lack of vitality
13. Water passage
14. Chinese river
15. Sanctify
16. Similar to
17. Trustworthy
18. Racket
19. Teakettle nozzle
21. Remarkable person or thing
23. East Coast Ocean
28. Struggle against
30. Monotonous
31. First performance
33. Psyche parts
34. Mild cigar
36. Fornicary inhabitant
37. Papermaking device
40. Ferrer and Torme
42. Linking verb
43. Totalling lacking
45. Forms an alliance
46. Items of business
47. Contests of speed
48. Struck noisily

DOWN

1. Machine part
2. Brief joke
3. Chinese dog
4. Murderous frenzy
5. Queues
6. Hang down
7. Of the foot's sole
8. Be in power
9. Anoints
10. Highlander
11. Bow wood
13. Deltoid site
17. Like an oven
18. Village
20. Kneecaps
22. Wheel part
24. Bom
25. Follower
26. Burr series
27. Vesicle
29. Reaping hooks
32. Actress Dawn Chong
35. The end
37. Spanish lady
38. Heroic poem
39. Attractive
41. Divisible by two
42. Mongrel
43. Flatfish
44. Father

For crossword solution, see page 5.

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I'll fly away

A northern harrier returns to the wild with a helping hand from Doug Grier, a member of the Wild Bird Club. The harrier, one of two birds released last week, was found stunned in a ditch a month ago and brought to the OVC Wild Bird Clinic for rehabilitation.

Photo by Maurice Oishi, University Communications

Bonsai show offers taste of Japan

The fifth annual Guelph Bonsai Show will be held at the Arboretum Centre Oct. 2 from 11 a.m. to 5 p.m.

Bonsai clubs from Guelph, St. Catharines, Kitchener, Etobicoke, Toronto, London and Haldimand will display examples of bonsai,

the ancient Japanese art of miniature trees. Prof. Ushcr Posluszny, Botany, vice-president of the Guelph Bonsai Club, will give a bonsai demonstration at 2 p.m.

Japanese cultural events will include flower arranging, shiatsu massage, laido, tai chi, origami

and sword polishing. Kite flying will be demonstrated by the Kitchener Wind Climbers. A sales area will offer bonsai plants, tools and Japanese wares.

Also planned are tours of the Arboretum collections, with emphasis on trees from the Orient and themes in nature that bonsai artists emulate in their work.

Admission is \$4 for adults, \$3 for seniors and students 14 and over. For more information, call Ext. 2113. □

Cat got your goat? Call in the experts

by Margaret Boyd
University Communications

Correcting behavioral problems in dogs and cats is difficult but not impossible. Just ask OVC's Small-Animal Behavioral Service, which deals with all sorts of problems — and has a 72-per cent success rate.

"It may sometimes be true that behavioral problems are the owner's fault, but there are also genetic factors," says Prof. Andrew Luescher, Population Medicine, a specialist in animal behavior who runs the service with two other veterinarians.

Problems can arise if owners don't put enough time and effort into their pets, or if owners are overly indulgent and create separation anxiety in their animals, says Luescher. An animal's genetic predisposition may also create problems. For example, an animal with a dominant nature living with gentle people may develop behavioral problems.

Most common

The most common problems in dogs are dominance aggression (27 per cent), separation anxiety (18 per cent), territorial aggression (13 per cent), house soiling (nine per cent), fear and fear aggression (five per cent), compulsive disorders (five per cent) and excessive barking (four per cent).

The most common problems in cats are house soiling (45 per cent), urine marking (19 per cent), compulsive behavior (seven per cent), fear aggression (4.5 per cent), redirected aggression (four per cent) and petting aggression (3.24 per cent).

Luescher notes that problems can be irreversible if dogs are mistreated at a young age. Socialization takes place at six to 12 weeks of age; puppies that are not socialized will be shy. The fear period is

from eight to 10 weeks; puppies mistreated at this time will probably become globally fearful. And puppies that are kept in cages and forced to defecate and urinate in a cage will not be housetrainable.

"These are good reasons to get a dog as a puppy from a reputable breeder or from the humane society," he says.

Highly variable

Treatment at the clinic is highly variable — some animals are cured with the first treatment, says Luescher. The regular procedure is a phone call followed by an average of three follow-up calls. Animal owners also get a sheet outlining treatment.

"It is most difficult to get client compliance because some of the methods are contrary to what owners want to do," he says. Curing an animal of separation anxiety, for example, requires owners to be non-demonstrative to their pets at certain times.

Behavioral problems are a growing issue in veterinary care, says Luescher. He believes vets should put more importance on these problems because of the toll they take on pets and owners.

"Behavioral problems are extremely common in the first year of the acquisition of a pet. Twenty-five per cent are euthanized or given away because of behavioral problems and 15 per cent for other reasons."

Behavior seminar

Luescher and his colleagues Prof. Don McKeown and Jack Halip offer an animal behavior seminar called "How Dogs Learn" for vets, veterinary technicians, dog trainers and breeders, animal behaviorists and pet owners. It focuses on improving the efficiency and effectiveness of canine training through proper application and interpretation of basic principles of learning.

The workshop has been held this year in Guelph, New Jersey and Alberta and is coming up in Halifax Oct. 15 and 16, Fredericton Oct. 22 and 23 and Vancouver Nov. 12 and 13. On Nov. 5 and 6 in Guelph, U.S. animal behavior experts Karen Pryor and Gary Wilkes will lead a workshop called "Don't Shoot the Dog: The New Art of Teaching and Training." For registration information, call 1-800-375-7994. □

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FIRST GLANCE

Input sought on report

Copies of the *Final Report of the President's Task Force on Anti-Racism and Race Relations* have been distributed to all U of G faculty, staff and students.

President Mordechai Rozanski invites written comments on the report, particularly the section on recommendations, by Nov. 15. He'd like to hear, for example, which recommendations you support, which you don't and whether there are recommendations not included in the report that you think should be considered.

Rozanski expects that an implementation plan for the task force recommendations that are eventually accepted will be available to the University community by Jan. 31, 1995.

Senate schedule

Senate meetings for this academic year will be held on the following dates: Oct. 18, Nov. 15, Dec. 20, Jan. 17, 1995, Feb. 21, March 21, April 18, May 16 and June 20. Meetings will be held at the new time of 6:30 p.m. in Room 113 of the MacNaughton Building.

Inside:

Convocation honors to five 3

More Ontario Scholars call Guelph home . . . 4

The World at Guelph . . . 5

Calendar 7

Thought for the week

Virtue is insufficient temptation.

George Bernard Shaw



Put on a happy face

Luckily, there's more to Homecoming than touchdowns. Football fans like Dorothee Kolster, a student in biomedical sciences, didn't have much to cheer about as the Gryphons lost 39 to 7 to the Wilfrid Laurier Golden Hawks. But she, along with the other 5,000 fans who turned out for the game — some decked out in head-to-toe paint and cow costumes — kept team spirits high. The weekend also marked the kickoff of the campus United Way appeal and sported a new family-friendly look that included carnival rides, flapjacks and a dunk tank. See stories on page 8.

Photo by Mary Dickieson,
University Communications

Real estate ventures to generate new revenues

Extraction at the gravel pit in Puslinch Township began this summer and sales of Village by the Arboretum were launched — two U of G real estate projects aimed at generating revenue over the next decade to help shape the institution's financial future and contribute to debt reduction.

President Mordechai Rozanski informed Senate Sept. 20 that the gravel is being extracted at the 188.6-hectare pit by Ambro Construction under a subcontract from St. Laurence Cement and is being used to widen Highway 401. Some 60 units have been sold in the Village by the Arboretum, which is located on the south side of Stone Road between Gordon Street and Victoria Road. Another 90 units are expected to be sold by the summer of 1995.

Services to lots in the 44.5-hectare adult retirement community were also installed this summer, and the village will accept its first residents in late fall.

Revenues from the gravel pit and the retirement village, as well as from sales of designated non-core real estate properties, will flow into the Heritage Fund "once sunk costs are recovered over the next five or more years," Rozanski told Senate.

The fund was established three years ago

with start-up money from profits from the Real Estate Division and a bequest from Eliza and Petrina Keefer of Cambridge to provide a secure source of funding independent of government. The fund now sits at about \$13 million and is projected, if plans are realized, to grow through real estate developments and bequests to \$25 million in five years. It is hoped that the fund will grow to more than \$150 million in 20 years, said the president.

Administered by an independent board of trustees, the Heritage Fund returns a percentage of investment income to the University that is now being used to pay down capital projects. To date, the fund has contributed \$1.25 million in investment income to special capital projects such as the renovations to Zavitz Hall and the Bovey Building. It's anticipated that once debt is paid down, future allocations approved by Board of Governors will increasingly support academic enhancement efforts, Rozanski told *At Guelph* last Thursday. He praised the wisdom of previous boards and academic and administrative personnel who were far-sighted in establishing the Heritage Fund.

"It is encouraging that the University is moving toward non-conventional revenue sources and that there is growing recognition in the

University community of the need to explore new revenue strategies so we can shape our financial future," said Rozanski.

Guelph also plans to lease 21.4 ha at the northeast corner of Edinburgh and Stone roads for a neighborhood shopping centre and residential and office spaces, he added. The land is currently farmed on an annual basis by Woodrill Farms Ltd., and the eastern portion contains market-garden plots used by residents of Wellington Woods. Initially the University will seek proposals to develop the neighborhood shopping centre and some residential units and office spaces on Edinburgh Road. Ownership of the land will remain with the University, consistent with its status as core land.

With B of G's endorsement, the Real Estate Division has begun conversations with a company interested in buying the University's Stone Road West property. The 17.8 ha on the north side of Stone Road between the Hanlon Expressway and Edinburgh Road had been leased to Sifton Properties in the 1970s for Stone Road Mall. Sifton recently sold its interest in the property. If the Stone Road Mall is sold, then the lands to the west of Scottsdale Drive (Holiday Inn, Canada Trustco and Dira

See SALE on page 4

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by David Wauplissa
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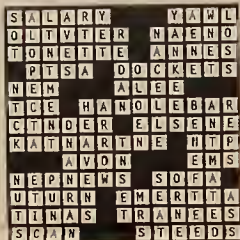
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PEOPLE

A farewell luncheon for Prof. Ted Burnside, Animal and Poultry Science, will be held Oct. 16 at 1 p.m. in the University Club on Level 5 of the University Centre. Burnside is leaving U of G after more than 30 years to become academic vice-president at the Nova Scotia Agricultural College in Truro. Tickets are \$30 for faculty, \$20 for students, staff and spouses. RSVP by Oct. 7 to Ext. 3643 or 2695.

Prof. Onkar Atwal, Biomedical Sciences, received special recognition this summer at a meeting of the American Association of Veterinary Anatomists in California. He was honored for his distinguished career in teaching, research and international work in the field of veterinary anatomy.

Atwal is recognized for his contributions in the areas of pulmonary structure/function, the effects of ozone on endocrine function and the structure/function of pulmonary intravascular macrophages. He has also worked for years to expand his discipline in Afghanistan, Ecuador, India and Mexico.

Prof. Daniel Chouinard, French Studies, presented a paper on "La censure et la subversion de l'institution littéraire" at the annual APPFUCC conference in Calgary. He also spoke at the Conseil international des études francophones conference in Quebec City, giving a paper entitled "Un classique réactif? Violence et parodie dans la *Guerre des bou tons* de Louis Pergaud." □

LETTERS

Jazz festival says thanks for University support

The first Guelph Jazz Festival, held at campus and downtown venues Sept. 8 to 10, was such a resounding success that there most certainly will be a second one. The festival organizing committee would like to thank U of G for its generous support and to acknowledge the extensive involvement of members of the University community.

The festival was organized by a small but enthusiastic band of volunteers: Ajay Heble, Gillian Siddall and Donna Palmateer Pennée of the Department of English; Robert Pennée, Judy Barton and John Eastcott, former graduate students in the department; Julien Winter of the Department of Land Resource Science; Dudley Gibbs of the Department of Music; and Craig Storey of Hamilton.

In addition to sponsorship from the CIBC, Deloitte & Touche, the Downtown Board of Management, Jit Graphics and Media-works, the festival received private donations from U of G faculty, the offices of the president and academic vice-president, the Central Student Association, the College of Arts, the departments of English and Music and the Drunken Poets' Society. CFRU Radio provided promotion.

In addition to the people acknowledged above and on our festival program, the organizers wish to thank Ben Bennett, Debby Charter, Phil Charter, Cherry Clayton, Diana Dining Room and Coffee Shop, Jim Gallacher, Holi-

day Inn Guelph, Patrick Holland, Heather Kepran, Catherine Kerrigan, Brian Kiers, Gail McCormack, Brian McFalone, the U of G Orientation Committee, Dave Sills, Susan Stephenson, Margaret Stewart and Gerry Manning.

Special thanks to volunteer coordinators Chris Surridge and Camilla Leach and volunteers Jennifer Matz, Heather Matz, Max Yott, Norah Murphy, Laura Jamieson, Andy Clegg, Jason Sebeslav, Sarah Eason and Mark McCutcheon.

The Guelph Jazz Festival

Intends to stay in touch

A heartfelt thank you to everyone who contributed to my retirement party Aug. 18. It was a wonderful evening for many reasons, most of them related to the people in the University community. The party was great, and I truly did have the time of my life.

I would also like to express my appreciation for the phone calls, cards and letters I received in my last few weeks of employment here. I have some very special memories to take with me of the special people that make up this community. I enjoyed my time here, and I intend to stay in touch in my retirement.

Sheila Trainer

Dean search continues

A search committee headed by academic vice-president Jack MacDonald is seeking nominations and suggestions for candidates for the dean of the College of Biological Science.

Other members of the committee are Prof. Terry Beveridge, Microbiology; Prof. Sandy Middleton, Zoology; Prof. Larry Peterson, Botany; Prof. Isobel Heathcote, Engineering; OAC dean Rob

McLaughlin; research vice-president Larry Milligan; graduate student Nancy Sienna, Molecular Biology and Genetics; and undergraduate student Kevin Belluz.

The University community is invited to submit nominations and suggestions, preferably in writing, to any member of the committee. The deadline for submissions has been extended from Sept. 30 to Oct. 11. □

RETIREMENTS

The following members of the University community accepted the early retirement package in August and wished to have their retirement announced in *At Guelph*:

Vincent Scroccaro, Housekeeping
Moshie Dahms, U of G Library
Santo Tedesco, Physical Resources
Murray Milson, Security Services
Earl Ellis, Computing and Communications Services
John Ward, OVC Dean's Office
Dirk Tel, Land Resource Science
Jan Thorsen, Veterinary Microbiology and Immunology
John Barry, Structural Shop
Irene Bohn, Horticultural Science
Ronald McLean, Animal and Poultry Science
Bernie McClement, Physical Resources
Norman Hinds, Fire Division
Patricia Beimes, Land Resource Science
Beatrice Bell, Housekeeping
Neal Stoskopf, Crop Science
Trieste Embro, Animal-Care Services

Alfred Thompson, Paint Shop
Gertrude Wyllie, Housekeeping
Trevor Dickinson, Engineering
Dirk Bod, OAC Dean's Office
Margaret Hewat, Library
Walter Bachinski, Fine Art
Phil Sweeney, Microbiology
Theodore Watts, Consumer Studies
Anna D'ulisse, Housekeeping
Liesla Grant, Housekeeping
Ellen McGarr, Housekeeping
Alex Michalos, Philosophy
George McCutcheon, Purchasing
Albert Lamers, Paint Shop
Stan Litch, Counselling Unit
Leslie Thomas, Land Resource Science
Sheila Trainer, Zoology
Michael Rooke, Zoology
John Botter, Locksmith Shop
Elizabeth Wilson, Classroom Technical Support
Velma Osborne, Mail Services.

The following employees retired earlier this year:

Allan Coulter, Chemistry and Biochemistry
Ted Fletcher, HAF
Gerald Hannigan, Housekeeping
Dina Roberts, Housekeeping. □

APPOINTMENTS

Prof. John deMan has been appointed acting chair of the Department of Food Science until Aug. 1, 1995, while Prof. Marc Le Maguer is on administrative leave.

Ruth Gillespie has changed employment from library administrative officer in the chief librarian's office to operations manager in Teaching Support Services.

Jean Harvey of Guelph has been appointed assistant professor in the Department of Philosophy.

Frances Keen, formerly a secretary in the Department of English, is now a secretary in the Department of Consumer Studies.

Sam Kosakowski has been appointed assistant counsellor for Akademia and the BA program in the BA Counselling Office.

Prof. John Leatherland, Zoology, has been appointed chair of the Department of Biomedical Sciences for a five-year term that

began Aug. 15.

Bruce Luzzi of Athens, Georgia, has joined the Department of Crop Science as an assistant professor.

Ron MacKinnon will serve as acting chief librarian until Aug. 31, 1995.

Linda Mahood of Lethbridge, Alta., will join the Department of History as an assistant professor Jan. 1, 1995.

Prof. Jay Majithia has been named acting chair of the Department of Computing and Information Science.

Donna Palmateer Pennée has been appointed an assistant professor in the Department of English.

Anne Sylvestre of Philadelphia has joined the small-animal surgery section of the Department of Clinical Studies as an assistant professor. □

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At Guelph welcomes contributions from the University community, including letters to the editor, opinion pieces, publications and news about faculty, staff and student activities. Deadline is Wednesday at noon unless otherwise specified. Articles may be reprinted with permission of the executive editor.

At Guelph headlines top stories and coming events can also be accessed on GRIF.

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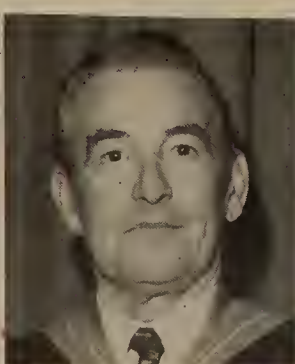
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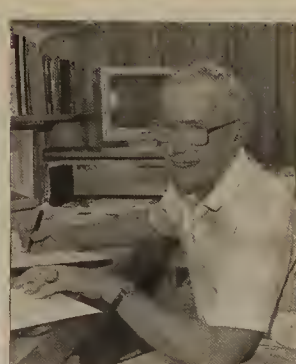
Mona Campbell



Blossom Wigdor



Eugene Benson



Trevor Dickinson

Five to receive honors at fall convocation Oct. 7

U of G will honor a scientist, a businesswoman, a social scientist and two teachers at fall convocation ceremonies Oct. 7.

Businesswoman and philanthropist Mona Campbell will receive an honorary doctor of laws degree, psychologist Blossom Wigdor and evolutionary biologist William Hamilton will receive honorary doctor of science degrees, retired engineering professor Trevor Dickinson will receive the John Bell Award for teaching excellence, and retired English professor Eugene Benson will be named professor emeritus.

About 700 students will graduate in three ceremonies in War Memorial Hall. Hamilton and Campbell will receive their honorary degrees at the 10 a.m. ceremony, where Hamilton will address graduates of CBS, CPES, OVC and OAC. Dickinson will receive the John Bell Award at the 2:30 p.m. ceremony and will address graduates of the College of Social Science.

Wigdor and Benson will receive their honors at the 7:30 p.m. ceremony, where Wigdor will address graduates of the College of Arts and FACS.

Mona Campbell

A pioneer in Canadian agribusiness, Campbell has led Dover Industries Limited since 1955. She has devoted herself to environmental and social concerns since the 1940s and has been an ardent supporter of many educational and cultural institutions.

As the first woman director of the Toronto-Dominion Bank, a position she held from 1976 to 1990, Campbell distinguished herself and set a standard of integrity for those who followed her.

Her support of the Royal Ontario Museum has helped make it one of the great museums of the world. She has also championed the cause of the National Ballet and has provided patronage to such organizations as the Garden Club of Toronto, the Metro Toronto Zoo, the Canadian Opera Guild, the Shaw Festival and the Royal Agricultural Winter Fair, where for years she and her husband showed horses.

In 1946, as founding director of the Ontario and Toronto divisions of the Canadian Cancer Society, Campbell established the first cancer dressing station in Canada. This became the model for all subsequent stations in North America. The same idealism inspired her generosity to U of G, where she sponsored the Equine Research Centre's mare and foal program and established a chair in animal welfare at OVC in memory of her husband, Col. K.L. Campbell.

William Hamilton

Hamilton was born in Egypt, educated at Cambridge and the University of London, and is currently Royal Society Professor in the department of zoology at Oxford University. He has also held academic appointments as lecturer in genetics at the Imperial College of Science and Technology in London and professor of evolutionary biology at the University of Michigan.

Hamilton is internationally recognized for his fundamental contributions to the theory of evolutionary biology, animal be-

havior, population genetics and disease. His unrivaled series of theoretical papers form much of the basis for current research in these fields.

His 1964 papers on the genetical evolution of social behavior provide much of the theory for the past 30 years of research in this area.

He is perhaps best known for his formulation of Hamilton's Rule, to account for the evolution of co-operative behavior in animals. His work has revolutionized thinking about almost every aspect of ecology, life history and behavior of plants and animals.

Hamilton has been honored for his contributions to science by many awards and prizes. In 1993, he received the Crafoord Prize of the Royal Swedish Academy of Sciences and the Kyoto Prize in Biology.

Blossom Wigdor

Born in Montreal and educated at McGill University and the University of Toronto, Wigdor has played a leading role in establishing the field of gerontology in Canada. She is professor emerita at the University of Toronto, where she taught in the department of psychology and was founding director of the gerontology program.

For more than 30 years, Wigdor served the Department of Veterans Affairs as a clinical psychologist and senior consultant in psychology in Montreal, Ottawa and Toronto. At the same time, she was a fac-

ulty member at McGill, where she initiated the development of courses and programs in the psychology of aging.

She was among the founding members of the Canadian Association on Gerontology and has chaired the National Advisory Council on Aging and the Canadian Coalition for Medication Use and the Elderly.

Wigdor was named to the Order of Canada in 1989 and was awarded an honorary doctor of science degree by the University of Victoria in 1990.

She is the author of numerous papers and reports and several books, including *Planning Your Retirement: The Canadian Self-Help Guide*. She is co-author with David Foot of *The Over 40 Society: Issues for Canada's Aging Population*. She was founding editor-in-chief of the *Canadian Journal on Aging* and has served as a member of the Science Council of Canada.

Wigdor is a fellow of the Canadian Psychological Association, the Gerontological Society of America and the Society of Personality Assessment.

Eugene Benson

In the course of his career, Benson has contributed extensively to the departments of English and Drama, to the cultural and theatrical life of the Guelph community and to such organizations as the Writers' Union of Canada, PEN International and the Guelph Spring Festival.

Benson's early creative works included

plays, poems, novels and libretti. His later accomplishments represent major contributions to national and international scholarship, a book on the Irish playwright J.M. Synge and a book on English-Canadian theatre.

His most recent contributions to international scholarship included co-editing two standard and definitive scholarly works, *The Oxford Companion to Canadian Theatre* and *The Routledge Encyclopedia of Post-Colonial Literatures in English*.

Trevor Dickinson

A graduate of the University of Toronto and Colorado State University, Dickinson joined the faculty of U of G in 1967.

Teaching has always been a high priority in his career. For three years, he served as co-ordinator of instructional development in the Office for Educational Practice.

Twice he was honored for his teaching by engineering students, who named him engineering professor of the year in 1972 and 1986. In 1990, he was recognized for his outstanding contributions to teaching and learning with the prestigious 3M Teaching Fellowship.

The John Bell Award is named for the late U of G professor John Bell, former chair of the Department of Languages and Literatures.

Editor's note: A photograph of William Hamilton was unavailable at press time. □

Holmes marks final convocation as registrar

by Maurice Oishi
University Communications

It's pride of place that has helped Arnold Holmes become the longest-standing registrar in the Ontario university system.

He graduated from OAC in 1962 and, aside from a short stint in the advertising business, he's been in the Office of the Registrar ever since.

"This has been my life, and the people have been my family," says Holmes, who retires in February after 32 years on the job. Next week will mark his last official duties at convocation.

In the beginning, he worked as assistant registrar in the newly formed Federated Colleges, which gave rise to the present-day U of G. Since then, he's seen enrolment swell from 2,000 in 1965 to about 13,000 today.

Nonetheless, says Holmes, Guelph still offers its students not just an education, but a community.

When he started his career on campus, he lived in Mills Hall as proctor for seven years. He remembers the frosh-week hazing and the Sunday dinners that included both students and parents. The campus has grown and students have become more serious, he says, but because of solid first-

year programs and the residence system, "a lot of that feeling is still here. We can be very proud of that."

Holmes says one of the joys he's had is working with six presidents. Each brought his own flair to the job and took the University towards a new course, he says. "I've had great admiration for them all."

He also takes special pride in convocation. Over the years, he's watched 60,000 students graduate in 325 convocation ceremonies and he's done whatever he could to make it a special day for every one of them. "There are few people who put as much effort as Arnold does into making convocation as smooth and elegant an affair for each student," says convocation marshal Prof. Ken Fisher, Biomedical Sciences. "He has a deep concern that Guelph is a people place and recognizes students as a central part of that."

Fisher, who's helped with convocations for more than a decade, also notes that Holmes has a seemingly infallible ability to predict convocation day weather. "We wonder where he gets the inside information."

Yet the ceremonies haven't been without incident. Holmes recalls one student who, during the heady days of the late 1960s,



Arnold Holmes in the 1970s

chose to burn his parchment as the procession of dignitaries left the ceremony. At another ceremony, proud parents arrived to see their son receive his degree, only to learn he hadn't completed the requirements for his degree. In the end, the student crossed the stage to pick up an empty folder. "That wouldn't happen today," Holmes says.

His decision to retire was based on the desire to "make room for change," he says. Having navigated the creation of a university and the trials that have followed, he believes the University is capable of tackling the strategic-planning process. "I'm convinced the University will be successful in its academic programs. The foundation is here." □

More Ontario Scholars call Guelph home

The number of Ontario Scholars entering U of G continues to rise, reflecting the University's growing reputation as the institution of choice among high school students.

Ontario Scholars made up 72.1 per cent of this semester's entering class, an increase of 3.2 per cent over last year. At the same time, the number of students who named U of G their first choice among Ontario universities rose by 8.3 per cent to 3,922. Of these, the number who accepted an offer of admission increased by 16.4 per cent.

B.Sc. (Agr.) and B.Comm. programs showed the most marked improvement in the quality of their first-year students. In both programs, the number of Ontario Scholars rose more than 10 per cent.

Assistant registrar Starr Ellis says the marks needed to enter U of G are among the highest in the province.

A total of 13,115 undergraduates are now enrolled at U of G.

This drop of 602 students over last year puts U of G "right on target" in its efforts to reduce undergraduate enrolment to 11,500 by 1996, says registrar Arnold Holmes.

In contrast, the University's graduate enrolment is up to 1,521 full-time and 243 part-time students. (These figures are expected to increase slightly over the next few weeks as more students arrive.)

That's good news to the Faculty of Graduate Studies, which aims to increase total graduate enrolment to 2,000. The figures reflect the efforts of individual departments across campus, says Graduate Studies dean Doug Ormrod.

"The new programs that have been developed and approved in recent years are now taking off," he says, "and along with the well-established programs, they're ensuring that the University's objectives are being achieved." □

Sale of properties under consideration

Continued from page 1

Construction) would also be available for sale.

The Stone Road Mall property does not form part of the University's core lands and has never been considered in the University's long-range development plan, said Rozanski. The board of trustees of the real estate development committee, B of G and the University administration have the potential sale under serious consideration, he said.

U of G has also decided to sell a 1.2-ha island on McKellar Lake, 20 kilometres northeast of Parry Sound. McKellar Island was donated to the University in 1988 by Robertta Fitts, an OVC '45 graduate, and her brother, Thomas Laughlin.

Another property being considered for possible sale is the Erasmos Research Station. The 88-ha farm north of the Village of Erasmos on Highway 24 will be vacated by OVC at the end of December.

These initiatives are part of a carefully developed long-term real estate plan, said Rozanski.

All recommendations for sale of University-owned properties must be reviewed by the appropriate committee (B of G's physical resources and property committee for core lands and non-core lands not assigned to the Heritage Fund and by the board of trustees of the real estate development committee for all properties assigned to the Heritage Fund) before being forwarded to B of G for consideration and approval.

Rozanski said Senate will be kept informed of real estate developments.

The Real Estate Division also continues to promote the Research Park and the Research Park Centre. The park on the south side of Stone Road between Edinburg and Gordon consists of 12.1 ha. Buildings are sitting on six ha; 1.3 ha are serviced and available for

lease, and 4.8 ha are unserviced. A feasibility analysis is under way on a fibre-optics link to the park.

The Research Park Centre now has 12 tenants. Phase 2 of the centre has been completed, and 50 per cent of the space is leased.

The Real Estate Division also has a number of long-term plans that are expected to be considered in the next fiscal year, said Rozanski.

SPC discussion

In other Senate business, Strategic-Planning Commission (SPC) chair Prof. Bev Kay, Land Resource Science, gave a progress report on the commission and its committees, particularly the committee on academic planning. To allow for community input to the process, the timetable of the strategic-planning process has been extended by three months.

The next SPC report will be distributed to the community in mid-November with discussion extending to the end of January. The commission's final report is expected to be submitted to the president at the end of February 1995.

Much of the Senate debate focused on controversial issues related to restructuring, particularly in the first of two progress reports from the academic-planning committee. The eight-person faculty and staff committee, chaired by Prof. Nigel Bunce, Chemistry and Biochemistry, is expected to give its report to SPC by Oct. 30.

Prof. Constance Rooke, associate academic vice-president, encouraged senators not to focus exclusively on restructuring suggestions, which have changed since the second academic-planning committee report was published, but to also concentrate on some of the inventive ideas coming forward in the reports of the other 10 SPC-appointed committees, which met over the summer to consider the issues identified in "Framing the Choices."

Reports from five of those committees — assessment of the advantages and disadvantages of the semester system, consideration of courses/credits required for graduation, performance evaluation and graduation, performance evaluation and orientation/retraining, collaboration with alumni and climate of trust and open communications — are being distributed to deans, directors

and chairs this week. They are also on reserve in the library and are posted on GRIFP.

"A number of these recommendations have enormous potential benefit to the institution," said Rooke.

Although serious concerns were raised at Senate about the academic-planning committee reports, particularly the first one, Rozanski said that several senators came up to him after the meeting to express support for the process and recognized the courage of the committee and its chair in raising such controversial issues.

"As the interactive process continues and ideas are brought forward by faculty, departments and programs, I am hopeful that the University will benefit from the deliberations and the options that this committee will offer in its final report," he said.

Other business

In other business, senators received a report on fall enrolment (see accompanying story), and Rozanski briefed Senate on the Ontario Council on University Affairs (OCUA) discussion paper on a review of the formula used to fund Ontario universities. (See *At Guelph*, Sept. 21, and watch for details of U of G's meeting with OCUA on campus Oct. 13 in an upcoming issue.)

Senate approved three of the five Senate representatives on the selection committee for academic vice-president. They are CPES dean Iain Campbell, graduate student Dale Dickinson and undergraduate student Laura Beattie. Senators will vote by ballot this week on two faculty representatives.

Senate supported changing the position of academic vice-president to provost and vice-president (academic). The change indicates that the incumbent is the principal adviser to the president on all academic matters, with prime responsibility for academic planning and leadership in ongoing academic operations. A job description is being generated.

A study-abroad program in India on a one-year trial basis was also approved by Senate. This is contingent on funding. Watch for more on this in a future issue of *At Guelph*. □

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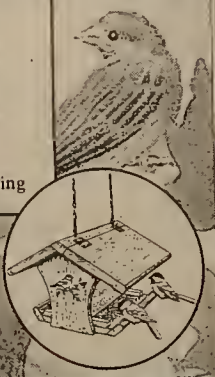
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Local man charged with sexual assault

A Guelph man has been charged with sexual assault with a weapon and two counts of robbery following an incident involving two U of G students on University property early Saturday morning.

City police say the students — one male and one female — were walking along a trail that leads off College Avenue between Edinburg Road and Smith Lane when a man they had seen earlier approached them with a knife and demanded cash.

The male student gave the man his money, and the female student tossed her purse away. The man then ordered the male student in the ground. He ordered the female

student to remove her clothes and proceeded to touch her.

The woman convinced the man to put the knife on the ground, at which point she grabbed it and threw it out of the way. The man left the scene with the students in pursuit. They caught the man and called police.

City Police Sergeant Paul Morant credits the victims with using the buddy system. "It might have saved a lot more from happening. The female victim herself remained calm and really used her head."

Charges have been laid against William Mooney, 31. □

WORLD AT GUELPH

There's pigweed in my salad

Across the ocean, Amaranthus is one big happy family

by Jennifer Cutts and Steve O'Neill
Office of Research

In Joseph Orykot's native Uganda, a spinach-like plant from the *Amaranthus* family called Dodoo — closely related to North American pigweed — is routinely cultivated and consumed. Imagine his surprise, then, to arrive at Guelph and find that pigweed is a major nuisance to Canadian farmers... and that he would be involved in a project to control it!

Orykot, who is on leave from his position at Uganda's National Agriculture Research Organization (NARO) to do a PhD in weed science, is one of several graduate students working with Prof. Clarence Swanton, Crop Science, on crop and weed interaction. Their goal is to develop environmentally sound and cost-effective weed-management techniques.

Pigweed — the collective name given to several members of the *Amaranthus* family — is one of the researchers' targets. Unlike its African cousin, Dodoo, which is grown in home gardens and eaten, the pigweed that infests Canadian corn and soybean fields is considered not a food but a pest.

So the weed-management team is bent on reducing pigweed's impact. Orykot's research, the only such field research in Canada, looks at the influence of two important variables — soil temperature and moisture — on weed-seedling growth.

For the third consecutive summer, he worked in cornfields at Elora and Woodstock. Through that research, combined with laboratory studies, he's been able to deter-

mine pigweed's base temperature (at which seeds germinate) and the length of time from that point to maximum emergence (when most seedlings break through the soil).

By expressing that period in degree days — a mathematical combination of temperature and time — Orykot is developing a model farmers can use to chart temperature changes and predict maximum seedling emergence.

He says corn farmers should have little problem adopting the method because a similar system called Ontario Corn Heat Units is already used to predict when crops will reach maturity.

The advantages of applying such a system to weed management are clear. Timing herbicide application to the point when most seedlings emerge should achieve the best pigweed control and eliminate the need to perform repeated treatments. The result is fewer herbicides in the environment and less cost and labor for farmers.

Pigweed isn't the only weed that could be controlled this way. "We believe the same principle can probably be applied to just about any weed species," Orykot says.

And the technique may even be useful back in Uganda. He expects to apply the same principles to developing viable management strategies for striga or "witch weed," which has a detrimental effect on corn and sorghum crops in East Africa and which his colleagues at NARO are currently grappling with.

Orykot's participation in the weed-management project is sponsored by the International Development Research Centre. □



Joseph Orykot has developed a weed-management technique that he hopes to apply in his native Uganda.
Photo by Trina Koster, Office of Research

Economist to give Hopper Lecture

Karl Helleiner, an international development economist at the University of Toronto, will give the 1994 Hopper Lecture on International Development Nov. 1 at 7 p.m. at War Memorial Hall. His topic is "Poverty in the South: Northern Responsibilities." Everyone is welcome.

While on campus Oct. 31 and Nov. 1, Helleiner will also meet with faculty and student groups and individuals and participate in graduate seminars, undergraduate courses and departmental seminars.



Karl Helleiner

Anyone wishing to meet with him should call Bonnie Spall at the Centre for International Programs, Ext. 3958. □

World genetics congress draws a crowd

Record numbers turned out this summer for the Fifth World Congress on Genetics Applied to Livestock Production, held on campus Aug. 7 to 12. More than 1,200 international scientists and their families from more than 80 countries attended, double the number that turned out for the last congress in Scotland in 1990.

Launched in 1980, the congress is held every four years and brings together top scientists and researchers in different fields of animal breeding. The Guelph event was hosted by the Centre for Genetic Improvement of Livestock and organized by Profs. Ted Burnside and Charles Smith, Animal and Poultry Science.

Additional support came from Agriculture Canada's Centre for Food and Agricultural Research.

"The congress is a key opportunity for animal geneticists from around the world to exchange views on research directions for the future," says Burnside. "The interaction between scientists from developing and developed nations has positive effects in terms of strengthening scientific research."

President Mordechai Rozanski and Guelph Mayor John Counsell were on hand for the official opening of the congress Aug. 8. Elmer Buchanan, Ontario minister of agriculture, food and rural affairs, attended a mid-congress break at the Ontario Agricultural Museum, sponsored by the Canadian livestock industry.

Close to 600 papers were pre-

sented by conference participants, including 40 young scientists from developing countries who came to Guelph with support from the Canadian International Development Agency. The papers were published prior to the congress and were available to delegates.

Copies of the six-volume proceedings are being shipped to libraries around the world. A limited number are available for \$100 from Carol Lohuis in Room 118 of the Animal Science and Nutrition Building, Ext. 2695.

The congress also held a joint symposium with the UN Food and Agriculture Organization on animal genetic resources. The sixth world congress will be held in Australia in 1998. □

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Russian statistician visits

Marianna Penskaya of the Ural branch of the Russian Academy of Sciences is visiting in the Department of Mathematics and Statis-

tics until the end of October.

Her two-month visit is sponsored by a Natural Sciences and Engineering Research Council grant of Prof. R.S. Singh. They are collaborating on a project called "Empirical Bayes Decision Theory."

Penskaya is located in Room 509 of the MacNaughton Building and is available for consultation on statistical-related problems.

On Oct. 4, she will speak on "Optimal Estimation of a Prior Density of a Multidimensional Parameter" at 3:10 p.m. in MacNaughton 201.

For more information, call Singh at Ext. 3298. □

IDRC talks about trade

The International Development Research Centre's Development Forum Series 1994 continues Oct. 5 with a discussion of "Are Trade Agreements Better Than Aid?"

Guest speakers include IDRC president Keith Bezanson.

For more information, call IDRC's Pauline Dole at 613-236-6163, Ext. 2479, or fax to 613-563-0815. □

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NOTICES

Putting on the dog

Jump on the United Way bandwagon at a fund-raising barbecue Oct. 3 from 11:30 a.m. to 1:30 p.m. on Branigan Plaza. Hot dogs and a soda are \$3 (\$2 if you buy your tickets in advance from your United Way representative).

Students needed

A master's student working with Prof. George Kawash, Family Studies, is looking for students to participate in a study on personality type. Time commitment is less than two hours. Participants will be eligible for prizes and can receive a description of their person-

ality type. Come to Room 106 of the FACS Building any Tuesday at 4 p.m., Wednesday at 1 p.m. or Thursday at 3 p.m. during the fall semester. Call Diane at 822-3442 for more information.

Boyd to perform

The University Centre presents Liona Boyd Nov. 9 at 8 p.m. in War Memorial Hall. Tickets are \$20 general, \$18 for students. Buddy Wasisname and the Other Fellas perform Nov. 7 at 8 p.m. at War Mem. Cost is \$18 general, \$16 for students. Tickets are available at the UC box office.

Eating disorders

The Counselling Unit of the Counselling and Student Resource Centre will run an information session on eating disorders Sept. 29 from 5 to 6:30 p.m. in Room 430 of the University Centre. For more information, call Ext. 3244.

Historical society

The Guelph Historical Society will meet Oct. 4 at 8 p.m. at St. Andrew's Church. Guest speaker Prof. Terry Crowley, History, will discuss "J.J. Morrison and the Farmer's Revolt in Wellington County."

Women's self-defence

The Women's Resource Centre will run a w-en-do self-defence course for women Oct. 22 and 29. A second course focusing on the specific safety issues of lesbian and bisexual women runs Nov. 12 and 13. For more details, call Ext. 8559 or drop by Room 107 of the University Centre.

On the run

As part of Access Awareness Week, the Centre for Students with Disabilities is staging a fun

run Oct. 1 at the Arboretum. It begins at 11 a.m. Donations from run participants will go to the Recreation Equality on Campus Club. Anyone donating \$10 or more will receive a T-shirt. For more information, call Ext. 6208.

Art information

An Artexite outlet is now open in the Macdonald Stewart Art Centre. Artexite, a non-profit organization that collects and disseminates information on all aspects of contemporary visual arts, offers more than 100 anthologies, theoretical texts and exhibition catalogues. Call the centre at 837-0010 for more information.

McDermott in concert

John McDermott performs Irish and Scottish songs Oct. 14 in War Memorial Hall. Tickets are \$20 general, \$18 for students, and are available at the University Centre box office.

Book 'em

Man in Motion Rick Hansen discusses his new book *Going the Distance* Oct. 18 at noon in Peter Clark Hall. Admission is free. On

Oct. 21, W.P. Kinsella, whose imagination spawned the movie *Field of Dreams*, talks about his latest book, *Brother Frank's Gospel Hour*, at noon in Peter Clark Hall. Tickets are \$3 and \$2.

Career fair set

Career Services is sponsoring Career Fair '94 Oct. 4 from 10 a.m. to 4 p.m. at Bingemans Conference Centre in Kitchener. Admission is free, and students can sign up for shuttlebuses at the Central Student Association office on Level 2 of the University Centre. A list of the approximately 80 employers who will be attending is available at Career Services on UC Level 3.

Conferences planned

The First Canadian Conference on International Health will be held Nov. 13 to 15 in Ottawa. Details are available at the International Education Services (IES) Info-Centre on Level 4 of the University Centre. IES also has information about the Ottawa conference "Toward the Third Millennium: The Role of the United States in the New North America" Nov. 3 to 5. □

JOBS

As of *At Guelph* deadline Sept. 23, the following opportunities were available to on-campus employees only:

Building Mechanic IV, Air Quality, Building Environmental Systems, Physical Resources. Job rate: \$18.15 an hour. Probation rate: \$20 lower. Closing date: Sept. 28.

Library Assistant, Circulation and Interlibrary Services, Library. Salary range: \$11.90 minimum, \$14.88 job rate, \$17.86 maximum. Closing date: Sept. 28.

Library Assistant, Circulation and Interlibrary Services, Library, temporary leave from Oct. 3/94 to April 28/95. Salary range: \$11.90 to \$13.28 an hour. Closing date: Sept. 28.

Technician, Department of Microbiology, temporary leave from Oct. 1/94 to Feb. 14/95. Salary: \$11.90 to \$13.28 an hour. Closing date: Sept. 28.

Technician, Department of Microbiology, temporary leave from Oct. 1/94 to Dec. 23/94. Salary: \$10.64 to \$11.88. Closing date: Sept. 28.

Grants Clerk, Office of Research, temporary leave from Nov. 1/94 to May 3/95. Salary range: \$14.44 to \$16.13 an hour. Closing date: Sept. 30.

It is the University's policy to give prior consideration to on-campus applicants. To determine the availability of University employment opportunities, visit Client Services on Level 5 of the University Centre or call 836-4900. □

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CLASSIFIEDS

FOR SALE

Garage sale, Oct. 1 from 8 a.m. to 2 p.m., 78 Lyon Ave.

Large (21 x 30 x 36 inches) and super (26 x 36 x 48 inches) dog crates/kennels, great prices; wide variety of rawhide bones, pet food and supplies, leave message at Ext. 4309.

Woman's 10-speed bicycle, fenders, rat-trap, Patricia, 821-5982.

Single bed, good mattress and box spring; antique Singer sewing machine, Ext. 2794.

Cedar lawn furniture, six pieces; bookshelves; NBA sports basketball hoop with net and fiberglass backboard, 836-1231.

Yamaha PSR-400 electronic keyboard, five octaves, touch-sensitive full-size keys, 100 instruments, 101 accompaniment styles, carrying case, stand, sustain pedal, headphones, adaptor, batteries; natural rattan furniture, loveseat, two chairs, rocker and glass-top table, like new, cushions included, 856-4586.

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IBM PS/2 laptop, 386, 16-Mhz, 80-Mb hard drive, regular ports, 3.5-inch floppy, fax modem 9600/4800 baud, built-in mouse port included, power-saving hardware, two extra batteries, carrying case, Dave, Ext. 76896.

AVAILABLE

Looking for part-boarder for my mare, all her own tack and equipment, located 10 minutes from the University with trails to ride, Yvette, 766-1472.

WANTED

Convocation tickets for Oct. 7, 7:30 p.m., 837-9611.

Index card cabinets, 7 1/4 by 4 1/2 inches, preferably three-drawer, Mo, Ext. 2592.

Desk, chair, bookshelves, bed or double futon frame, reasonably priced, Dennis, 823-9210.

WANTED

Return ride from Highway 10 in Mississauga to the University, will share gas and/or drive, Kim-Ext. 4900 or 905-275-2247 evenings.

Used filing cabinets, Ext. 8333.

FOR RENT

Three-bedroom house to share, appliances, yard, parking, mature males or females welcome, available Oct. 1 or sooner, \$360 a month inclusive for each of two bedrooms, Tanya, leave message at 843-7878.

Farmhouse to share with one person, spacious bedroom and living room, own fridge, shared kitchen, bath and laundry, 10 minutes from the University, \$300 a month plus utilities, Yvette, 766-1472.

Classifieds is a free service available to staff, faculty, students and alumni of the University. Items must be submitted in writing by Wednesday at noon to Linda Graham on Level 4 of the University Centre. For more information, call Ext. 6581.

For Sale

Beautiful teak dining table (80 cm. x 119-210 cm. extendable) and 4 chairs. Excellent condition, but chairs need upholstery. Asking \$450 or best offer. Leave message at 763-1811.

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CALENDAR

THURSDAY, SEPT. 29

Veterinary Microbiology & Immunology Seminar - Prof. Janet MacInnes discusses "There Must Be a Haemolysin Gene in Here Someplace..." at 11 a.m. in VMI 101.

Concert - The Department of Music's noon-hour concert series kicks off this fall with the Mondriaan String Quartet and pianist Neely Bruce performing 20th-century works in MacKinnon 107.

Population Medicine Seminar - Pedro Jou asks "Is In Vitro Fertilization Applicable to the Dairy Industry in Developing Countries? The Colombian Example" at 4 p.m. in OVC Learning Centre 1713.

Lecture - The Campus Ministry and Harcourt United Church are sponsoring a talk on "Sex and God: The Good News" with Rev. Ron Mercier, a professor at the Toronto School of Theology, at 7:30 p.m. in UC 103. Donations at the door.

FRIDAY, SEPT. 30

Nutritional Sciences Seminar - Jacob Selhub of Tufts University considers "Hyperhomocysteinemia in the Framingham Cohort" at 11:10 a.m. in Animal Science/Nutrition 141.

Sociology & Anthropology Seminar - "Mining, the State and Landowners in Papua New Guinea" is the topic of Western University anthropologist Dan Jorgensen at 11:10 a.m. in MacKinnon 904.

Biomedical Sciences Seminar - Graduate student Hua Hai talks about "Reduction of MNU-Induced Apoptosis in Mouse Hair Follicles in Vivo by TPA and Investigation of p53 Involvement" at noon in OVC 1642.

Cycling Club - a 25- to 35-kilometre off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, OCT. 2

Cycling Club - A 40-km ride to Guelph Lake and a 35- to 45-km off-road ride leave from the UC south doors at 10 a.m.

Bonsai Show - Learn all about the Japanese art of miniature trees from 11 a.m. to 5 p.m. at the Arboretum. The day will feature demonstrations of bonsai, flower arranging, tai chi, origami and kite flying. Cost is \$4 for adults, \$3 for seniors and students 14 and over.

TUESDAY, OCT. 4

Our World - "Politics and Development in Developing Countries: Cameroon Case Study" is the topic of visiting Cameroon faculty Ruben Njwe, Florence Fonteh, Ayissi Mbala and Isaac Tchouamo at noon in UC 442.

Mathematics & Statistics Seminar - Marianna Penskaya of the Ural branch of the Russian Academy of Sciences will speak "On the Optimal Estimation of a Prior Density of a Multidimensional Parameter" at 3:10 p.m. in MacNaughton 201.



The Mondriaan String Quartet performs Sept. 29.

Physics Seminar - Stafane Flibotte of McMaster University discusses "Superdeformed Nuclei at High Angular Momentum" at 4 p.m. in MacNaughton 113.

Student Leadership Series - "Self: Fitting into the Big Picture" is the topic at 5:10 p.m. in the Eccles Centre. For more information, call Ext. 2368.

WEDNESDAY, OCT. 5

Sociology & Anthropology Seminar - "Dutch Ethnicity: Myth and Reality (An Application of the Approach of Pierre Bourdieu)" is the focus of Prof. Frans Schryer at 12:10 p.m. in MacKinnon 904.

Cycling Club - A 27-km novice ride to Rockwood leaves from the UC south doors at 5 p.m.

Mac-FACS Meeting - The Mac-FACS Alumni Association will hold its fall meeting at 7:30 p.m. in the Arboretum Centre. Guest speaker is Prof. Joseph Tindale, Family Studies, who will discuss "Attachment and Reciprocity When Parents and Their Adult Children Negotiate Support."

THURSDAY, OCT. 6

Concert - Harpsichordist Stephanie Martin performs at noon in MacKinnon 107.

Schofield Lecture - Opendra Narayan of the University of Kansas Medical Centre discusses "Contributions of Veterinary Medicine and Animal Models to the Understanding of AIDS and AIDS Dementia" at 3 p.m. in War Memorial Hall.

Evolution/Systematics Seminar - "Parasites and Sex" is the topic of honorary degree recipient William Hamilton of Oxford University at 5:10 p.m. in Thornbrough 101.

FRIDAY, OCT. 7

Biomedical Sciences Seminar - Graduate student Nucharin Songsasen discusses "Cryopreservation of Murine Spermatozoa" at 12:10 p.m. in OVC 1642.

Cycling Club - A 25- to 35-km off-road ride leaves from the UC south doors at 5 p.m.

SUNDAY, OCT. 9

Cycling Club - A 35-km ride to Maryhill and a 35- to 55-km off-road ride leave from the UC south doors at 10 a.m.

Arboretum - Observe birds in the Gosting Wildlife Gardens and

learn what seed and feeder birds like best. The walk leaves from the nature centre at 2 p.m.

TUESDAY, OCT. 11

Our World - Tadesse Mesfin of Future Forests discusses "From Crisis to Commerce in Rural Ethiopia" at noon in UC 442.

Sociology & Anthropology Seminar - "The Current Crisis in Rwanda: Historical and Contemporary Roots" is the focus of Joachim Voss of the International Development Research Centre and Villia Jefremovas of Carleton University at 12:10 a.m. in MacKinnon 235.

WORSHIP

Roman Catholic Eucharist is celebrated Sundays at 10:10 a.m. in Thornbrough 100.

The Open Door Church (Anglican/United/Presbyterian) runs Sundays at 7 p.m. in UC 533.

Care of the Soul, a Thursday session of prayer and music, begins at 12:10 p.m. in UC 533.

Womanspirit, a spirituality circle open to all women, runs Fridays at 12:10 p.m. in UC 533.

"Getting Serious About Unitarianism" is the topic of Joan Todd Oct. 2 at 10:30 a.m. at the Guelph Unitarian Fellowship at Harris Street and York Road. Everyone welcome. ☐



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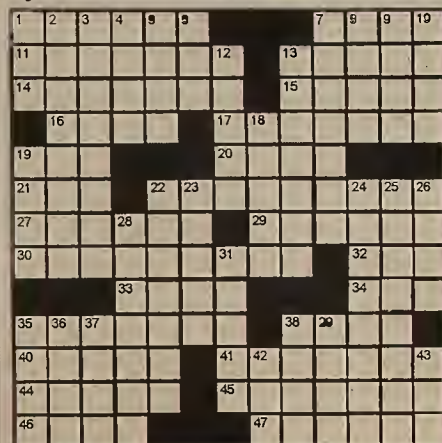
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ACROSS

1. Compensation for service
7. Two-masted vessel
11. Actor Laurence
13. Tortilla chip
14. Fipple flute
15. Archer and Baxter
16. Tuscan city
17. Calendars of business
19. Stitched border
20. Opposite of aweater
21. Skating surface
22. Luxuriant mustache
27. Ash fragment
29. Flemish name of Ixelles
30. Actress Hepburn
32. Squeeze
33. English river
34. Type measures
35. Siblings' male children
38. Livingroom furniture
40. 180° change in direction
41. Retired person
44. Turner and Louise
45. Brown studies
46. Glance over

DOWN

1. Drunkard
2. Baldness
3. Embrocation
4. Class of birds
5. "Educating" (Caine movie)
6. Up to now
7. New York team
8. Skin disorder
9. Stimulate
10. Defeat
12. Fortification
13. Plane's enclosed part
18. Ancient
19. Country bumpkin
22. "Gate" (Kristofferson movie)
23. Road sign sign
24. Church living
25. Lively
26. Ribbed fabrics
28. Saudi Arabian oil center
31. Map within a map
35. Almond and cashew
36. Generalized, in linguistics
37. Peruvian wind
38. Chair part
39. French river
42. Married woman
43. Beast of burden

For crossword solution, see page 2.

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Homecoming Weekend gets new look for '94

by Mary Dickieson
University Communications

Homecoming celebrations took on a new look this year, with what may be the first carnival — complete with six gut-wrenching rides — ever held on campus. Midway rides and games dominated the arena parking lot, while more games, displays, vendors and entertainment filled the area between the arena and the Mitchell Athletics Centre.

You could throw a ball to dunk Dino "Super Fan" Scremanti in a tank of water, take the Ruffles potato chip challenge, eat pancakes, go one on one with a Gryphon hooper, learn how to fight like a gladiator, buy a sweatshirt to ward off the damp weather, drink beer and listen to music.

Then, it was off to Alumni Stadium to watch the Gryphons take on the Wilfrid Laurier Golden Hawks, and back to the arena again for post-game celebrations with players from both teams. The Hawks won 39 to 7.

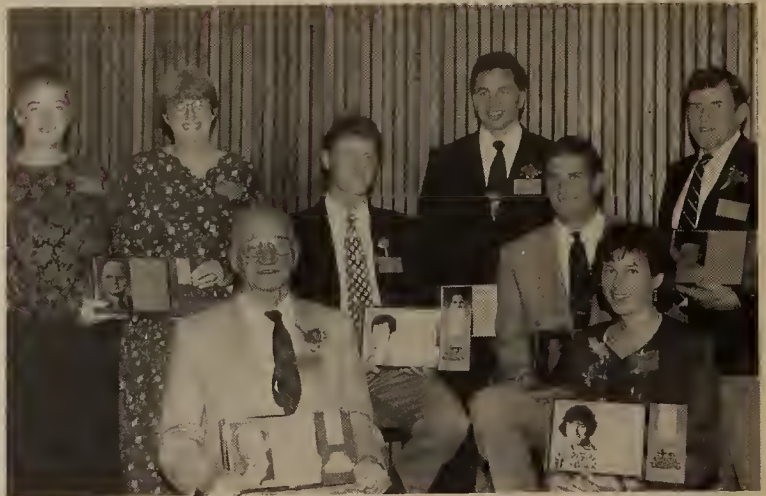
Scattered across campus were get-togethers for various alumni groups: former UGAA directors, Mills Hall alumni, engineers, dippers, Wildman trophy winners, swimmers, telephone fund raisers, Interhall Council and intramural inner-tube water polo players.

More than 700 first-year students attended a Thursday afternoon barbecue hosted by the U of G Alumni Association and North American Life Assurance Com-

pany. More than 1,200 lined up Friday night to attend a dance sponsored by the Student Federation of OAC in support of Canadian agriculture. Gryphon fans overflowed the stands on to the grass at Alumni Stadium for the football game, and there was a sell-out crowd in the gold arena Saturday night for a concluding concert by Blue Rodeo.

At the start of the football game, President Mordechai Rozanski held the football for Central Student Association spokesperson Lesley Isaacs at the ceremonial kickoff of the campus United Way campaign. The event was witnessed by a field party that included champaign co-chairs Denna Benn, director of Animal-Care Services; Chuck Cunningham, assistant registrar, liaison; retired family studies professor Janet Wardlaw, representing retirees; Trish Walker, director of Alumni Affairs; Dave Copp, director of Athletics; Guelph Mayor John Counsell; and Dennis Grimm, chair of the Guelph and Wellington United Way appeal.

A lasting memento of Homecoming 1994 is a new information kiosk and clock installed in front of the arena, a gift from the OAC Class of 1982. Executive members Nancy Noecker and Martin Harry were on hand for the unveiling. □



At the Gryphon Club Hall of Fame dinner are, from left, Liz Teskey and Sue Nuttley, daughters of Earl Hunt; Lyle Smith; Tyler Burch; Jeff Volpe; Parri Ceci; Maria Borges; and Prof. Jim Atkinson.

Photo by Mary Dickieson, University Communications

Six join Gryphon Hall of Fame

The Gryphon Club Hall of Fame inducted four athletes and two builders at the 1994 Hall of Fame Dinner on Homecoming Weekend.

- Prof. Jim Atkinson, Animal and Poultry Science, has coached 35 conference all-star rugby players and enjoyed 90 career victories. He has coached four teams to league or Ontario University Athletic Association finals and was named OUAA coach of the year in 1986 and 1990.
- College of Social Science graduate Maria Borges of Cambridge was named most improved field hockey player and soccer rookie of the year in 1984. She was named to the Ontario Women's Intercollegiate Athletic Association and Canadian Intercollegiate Athletic Union all-star and all-Canadian teams in 1986, '87 and '88. She was Guelph's female athlete of the year in 1986 and sportswoman of the year in 1987.
- OAC graduate Tyler "Ty" Burch of Omemee earned varsity letters in track and field and basketball. He was a member of the 1965 championship team in sprint relay and mile medley relay. In 1966, he served as captain of the basketball team, finished fifth in Ontario and Quebec Athletic Association league scoring and set a school record for the most points per game in a single season (15.2).
- Parri Ceci of Orleans is re-

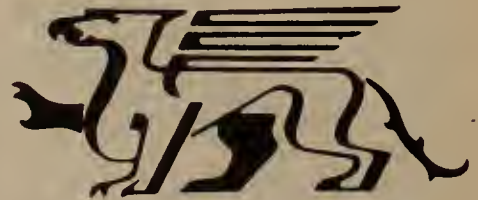
membered as the Vanier Cup MVP in 1984, the last year the Gryphons won the trophy. He led the OUAA in receptions that year (756 yards), was named to the CIAU all-Canadian first team, won honors as U of G male athlete of the year and Gryphon football MVP and was drafted by the Calgary Stampeders.

■ Earl Hunt of Gravenhurst played football for the OAC Aggies during his student days at Guelph. Soon after graduating in 1951, he joined the OAC faculty and became adviser to the team. He served as faculty adviser for 27 years. He also kept players on time from 1970 to 1990 as official timekeeper at Alumni Stadium.

■ OAC graduate Lyle Smith of Samia was a varsity letterman from 1937 to 1940 and was

vice-president and president of the athletic society from 1939 to 1941. He won two intercollegiate boxing titles and was silver medalist in pole vaulting for four years. As a member of the Canadian Air Force, he was overseas pole-vaulting champion in 1944.

■ CSS graduate Jeff Volpe of Toronto was the Gryphon rookie of the year in 1983 and led the Gryphons in punt returns in the 1984 Vanier Cup winning year. He was drafted by the Edmonton Eskimos and started in 11 games for the team in 1986, including the Grey Cup game against Hamilton. He holds a Gryphon record with six interceptions in one season and was named to the Gryphon Football 1980s Team of the Decade. □



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